

From The STAFF

W.T.F.D.A. Headquarters, P.O. Box 514, Buffalo, NY 14205

IT'S ALMOST CONVENTION TIME!...In just a few days, the 1984 WTFDA Convention will take place. Those of you new to WTFDA are welcome --it's a great chance for you to meet your fellow VHF/UHF DXing enthusiasts, and exchange ideas and tips, and maybe even get a look at some QSL and photo collections, DX equipment, and so forth, with the real possibility of having a chance at some great FM and TV DX while you're there. This year's outing is at Jamestown, NY, on a great DX hill about 50 miles south of Buffalo--easily reached via Interstate 90 (take Exit 59 of the NY Thruway, and NY Route 60 into Jamestown). The event takes place August 3rd, 4th, and 5th. Further info can be obtained from your host, Mike Lapinskas, at (716)665-6581. Hurry--some last minute accommodations may still be available.

CENTRAL FM-DX...Editor Ralph Strobel has called it quite after a long tenure as a VUD FM DX column editor. Starting in April 1979, Ralph took on the NORTHERN FM-DX section. He has done a consistently superb job for the VUD, and deserves our thanks. FM DX reporters in Minnesota, Iowa, Missouri, Wisconsin, Illinois, Indiana, Ohio, and Michigan are now asked to send their reports to NORTHERN FM-DX editor Saul Chernos, 79 Ridge Drive, Toronto, Ontario M4T 1B6, CANADA.

A REMINDER TO ALL VUD COLUMN EDITORS...The 15th of the month is still the deadline for getting your columns to Akron. Please make sure your copy gets in the mail in time to reach your Editor-in-Chief by deadline. The VUD can not be held up for just one column. Remember, you are reporting news to the WTFDA membership, and you are part of a team that has the common objective of getting the VUD into the hands of the membership as quickly as possible. Your fine work is always appreciated. In fact, HQ receives many compliments on the VUD, but this is really the result of many fine editors' work. Thanks, to all of you. This is really your magazine, not just the work of one or two people.

NEW TUNER FOR TV DXING?...Teknika has a new TV tuner/converter on the market that just may outperform most all commercially available TVs on the UHF channels. The converter was on view at recent electronics trade shows, and will be in use at this year's WTFDA convention. Watch for a VUD report coming up!

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On the Cover: KPSI-FM 100.9 coverage map from Dr. Bruce Elving.

ANTENNA NEWS

Doug Dornbos
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Hudsonville, MI 49426

August 1984

Dear Fellow DX'ers,

For those not familiar with the electronics business an explanation of what the CES is in order. The consumer electronics industry has 2 annual trade shows where many manufacturers show their wares to retailers and distributors who come to shop for products to resell. These shows are called the Summer and Winter Consumer Electronics Shows, SCES or WCES, or just plain CES, for short. For the past several years the Summer show has been held in Chicago, the Winter show in Las Vegas. The following is a brief look at a few of the DX related items I looked at in Chicago this past weekend-June 3 & 4. This is by no means what I think was the most important stuff there, it's just what I happened to see. Although I spent one whole day looking at TVRO, I don't believe that it has a place on these pages at the present time.

One product I have wanted to see for quite some time is the WinnTenna automobile TV antenna. These jobs mount on a roof or trunk, stick up about 6" above the surface, and look like a wing with about an 18" span. I was very disappointed both in the seemingly cheap construction and in the lack of any technical specifications. Two items offered however might be of interest to some of you; a Uhf-Vhf-fm and a Uhf-Vhf-am-fm automobile preamps offering 12-15 db gain.

My annual trip to the Grundig display proved to reassure me that some people still are concerned with quality. Although these products are not real inexpensive, they make for a very nice selection of portable am-fm-sw radios along with a line of more mass-appealing "ghetto-blasters". If you are looking for a portable to get it all, these little German beauties are worth a look.

The only other general coverage receiver I looked at was the Bearcat DX1000. This unit is very eye-appealing and is the scanner company's only product of this type. Every kind of button known to man is on this thing. If you want portability though, this is not the receiver to own. Although it sports a carrying handle there are no provisions for internal batteries. Weight is 17 lbs. As a point of interest, Bearcat was recently bought out by Uniden (from Elektra). Elektra's name will continue on the Freedom Phone. Dennesen was showing their Polaris indoor fm antenna which is still in my opinion the best product in this category on the market. Richard Kaufman the design engineer was not there and since he is a very interesting man to talk to I was somewhat disappointed. The Dennesen Polaris I am told will be reviewed in the August or September Audio magazine.

My next DX oriented stop was the Magnum display. President Mannfred Breunig was manning the display and as in past years was a very polite host. New this year is a 75ohm version of the Sleuth indoor amplifier. Although this unit has to be indoors and not up at the top of the antenna tower, it is very nice in the fact that it offers a tuning dial on the front giving the user added selectivity which is often needed in the crowded fm band. As a point of interest, Magnum prints a breakdown of who buys their product; 12% are McIntosh owners (topping the list), 10% Pioneer owners, 7% Carver owners, 4% Sony owners, 3% NAD, 3% Marantz, and 1% Sequerra owners. I picked out these brands from the list of 34 because of the interest shown in their products by the DX community. Besides the FM Sleuth, Mr. Breunig has also designed a complete FM tuner chassis which he hopes to sell to receiver manufacturers who do not have their own RF engineering departments and who wish to buy a product manufactured somewhere other than the far east. I was very impressed with the performance and versatility of this unit. It has provisions for a center tune meter, signal strength meter, and multipath meter. Oh that more marketing departments would dictate this last feature on their products rather than flashing lights and nonuseful handles on the face. I can only hope that someone will buy this unit and offer it to hobbyists who wish to "build" a tuner of their own. I forgot to ask if this was a possibility.

This brings me to the DX'ing highlight of the show - the Sequerra 1 FM tuner. Before discussing the equipment I must say that the Sequerra people impressed me VERY much in their hospitality and graciousness in the midst of a hectic business environment. My hat goes off to them for that.

CES (cont.)

Talking about taking things off, the Sequerra tuner will knock your socks off! (in modern vernacular). This is with no doubt the finest fm tuner I have ever had the pleasure of beholding and I don't doubt, in the world. Not only are the RF sections of this tuner of extraordinary quality, the tuner also encompasses an oscilloscope with spectrum analysis, stereo separation, multipath, and center tune functions among others. I am sure that after using a piece of equipment of this calibur, one would never be satisfied with the usual 2 meters again. I mean, knowing what you know now, would you ever go back to using an outdoor toilet again? This unit is so extensive, I cannot attempt going into detail here and quite honestly, without using the Model 1 for a length of time, I doubt one could even begin to realize its' full potential. If you would like more information on this \$5000.00 wonder, write: The Sequerra Company, 3000 Druid Park Dr., Baltimore, MD 21215. Say you read about it in the VUD.

For a bit of nostalgia, this year's show had a display of "antique" tv's - my how things have changed. In this display I picked up an interesting piece of paper depicting the growth of tv in this country starting in 1946 continuing to present. Looking at only the last half of this time period (back to 65) we see that 93% of homes had a tv in 65, 98% now. 5.3% had color in 65, 89% do now. What will happen in the next 18 years? So much for this year's summer show. I don't go to Vegas typically due to the distance (\$). I hope that you folks don't mind this momentary departure from a "strictly antenna oriented" column. It won't happen too often.

MEMBER'S INPUT

Thanks to all who bought some of the antenna supplies last month. There's still stuff left if you want it and haven't ordered yet. Thanks too for the kind words some of you wrote in with your orders. I appreciate it. In answer to some questions: I do not know of a source for Finco (Somim). If someone out there has access to it please write and I'll print it. In future columns I'll print addresses for various manufacturers. The Winegard 20/20 series of indoor antennas will definately outperform rabbit ears. Nate Ely reports that his purchase of the Channel Master 7206 tuneable trap has been a very worthwhile investment as far as getting rid of his interference problems. Tuning the trap without a field-strength meter has been no problem as I had thought it might be. Nate highly recommends this product. John Sulak sent me an article clipped from the May 14 issue of Electronic Engineering Times highlighting a new type antenna developed by Snyder Antenna of Costa Mesa, CA. This design uses a newly styled element allowing it to be resonant over a very broad range of frequencies. It looks very promising to me. It will be interesting to see what impact it has on the market. Thanks John.

MAGAZINE ARTICLES * THE LAST 2

11 Outdoor FM Antennas Analyzed	Audio	Jan 83
How to Make an FM Antenna	Blair & Ketchum's Country Journal	" "
Installing & Repairing TV Antennas	Mechanics Illustrated	Aug "
Switcher Salvation	High Fidelity	Apr 84
Rooftop Rx for TV Ills	" "	Oct 83

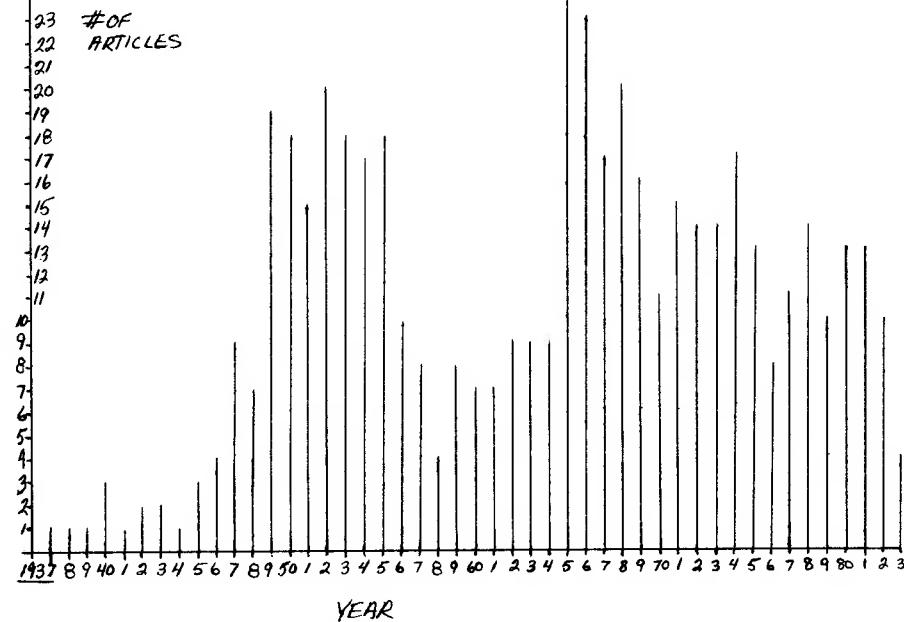
Addendum for past time periods

A \$10 FM Yagi	Audio Amateur	1977 series
Choosing & Installing an FM Antenna	" "	1980 "
Adding a Tower for FM	" "	1981 "

SOME CONCLUSIONS FROM THE MAGAZINE ARTICLE LISTINGS

Subtracting articles dealing with interference of a general nature, amateur radio antennas, and anything else not directly related to TV-FM antennas, I have arrived at some counts for years back to 1935. This should give you a rough idea at how popular a subject this is to the American public.

Conclusions (cont.)



Although not totally accurate, the above graph shows that the average American thirst for antenna knowledge grew rapidly in the 1940's (after WWII) right along with the growth of B&W tv. After a decline in the late 1950's and early 1960's, the effect of color tv shows itself with a big surge in articles which has yet to be matched. One would think that with all the current popularity of video, that antennas would once again be enjoying a lot of popularity but such is not the case. Maybe stereo tv will kick it off again...or maybe TVRO really will replace the old stand-by.

THIS COLUMN

This month represents a transition month for the Antenna News column. Since the second month it was published (June 83) the column has retained its' basic format: A little essay, Magazine articles from 1935 to current, Member's input, Theory and practice, and a little current news. For those who have recently joined the club, the theory & practice sections have progressed from mounting to items closest to the receiver back up towards the antenna. Specifically: Antenna mounts (general) June 83, Tripods (July 83), Mast pipe (August 83), Tower (Sept. 83), Rotors (Nov. 83), Transmission Line: Balanced/Unbalanced (Dec. 83), Impedance (Jan. 84), Baluns/Traps (Feb. 84), Product Comparison (Mar. 84). Leaving transmission line we go to traps & filters (Apr. 84), and lately we've hit preamplifiers pretty hard talking about noise figure (May 84) and bandpass (June 84), wrapping up with input and output configurations in July. Now that we have completed bringing the magazine articles to date and also have discussed antenna systems up to the antenna, this column will start to look at antenna systems in reasonable depth. Starting next month I will hit automobile antennas for a few months and then proceed to home units. If you think that I'm heading off in the wrong direction let me know.

BASIC THEORY: THE DECIBEL (I LIED LAST MONTH!)

Last month I promised that there would be no theory this month, I lied. After thinking about it for awhile I thought that this would be a good place to inject a brief description of the decibel for those who are not quite sure that they understand what it is and are to embarrassed to tell anyone.

The first and probably most important thing to remember is that a db is not a finite unit of measurement such as an inch is or a quart is. It is a unit of measurement much like the per cent is, always dependant upon a reference number. The problem with numbers like percents is that if we do not know what the reference number is, the per cent number can be very misleading. For example, I recently sold a dealer a Channel Master satellite earth station. It was the first one he had bought. After purchasing the system, the dealer had some disagreements with our company and will not purchase Channel Master any longer. Add to this the fact that the receiver on the one system he bought from me was defective. Because he once carried Channel Master but now is selling against it, he tells his customers that the reason he doesn't carry it is because when he did carry it, 100% of the receivers that he got were defective. The problem with per cents is of course that one must know the reference number in order to know how much the per cent is worth.

Enter the decibel! As I said before, the db is a lot like the per cent, in fact that's exactly what it is. When talking about TV reception antenna systems, a 6db increase is a doubling of signal. A 6db decrease is a halving of signal. A 12db increase is a quadrupling of signal and a 12db decrease is a quartering of signal. And on we go. If you are puzzling to yourself thinking that you recall seeing somewhere that a 3db gain is equal to doubling your signal, remember that I said we are referring to TV reception antenna systems. I chose my words carefully for a change! A 3db gain is a doubling of signal if the reference number is in watts. If it is given in volts however, as TV antenna receiving systems figures always are, then the 6db mark is where the doubling takes place. One must be careful when tossing these db's around especially when talking about transmitting and receiving antennas in the same breath since transmitting antennas are always referenced to a wattage and receiving antennas to a voltage. So what voltage is it referenced to? you might ask. Antenna gain measurements are always referred to a basic antenna, usually a dipole. For instance if we cut a dipole for 7 and then make a measurement of how many volts of signal we receive with it at a specific location, and then we put a channel 7 yagi up and find that it has received 4 times as much signal voltage as the cut dipole did, we say that the yagi has 12db of gain with reference to a standard dipole. If the gain specification does not tell what it is being referenced to, it is meaningless.

Amplifier gain is very easy to understand since the reference voltage is the voltage coming in. Therefore if an amplifier is specified as having 18db of gain, you know that it amplifies signal by 8 times.

Gain in a MATV system is a little different in that an arbitrary voltage is chosen and called zero db with everything under this point being a negative and everything higher being a positive. Note that the negative number does not mean negative signal. The point usually chosen for zero db is 1 millivolt (1000 microvolts), this being the accepted point at which TV tuners are operating at close to maximum.

I will leave you with a formula for finding the voltage gain from db gain and vice versa. Also for non-math types, here is a table showing a few values. Number of decibels = $20 \log_{10} (E_2/E_1)$ where: E_2 = the output voltage, E_1 = the input or reference voltage.

db	voltage times	db	voltage times
6	2X	28	25X
12	4X	31	35X
14	5X	32	40X
17	7X	33	45X
18	8X	34	50X
19	9X	38	80X
20	10X	40	100X
26	20X	50	300X
		60	1000X

Note: If you are working with traps and filters, these numbers become reciprocals for the voltage gain and negative numbers for the db. For example; if you have a trap that gives 60db of attenuation (-60db with respect to the input voltage), then your output is 1/1000 of the input.

Please excuse the "jumpiness" of this month's column as I wrote it in several sittings. See you next month. Thanks for reading. *Day*

TELEVISION NEWS

Bill Fahber, editor
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IN Hammond; ch. 62; Apogee, Inc.; Cross Country Network; Hammond Indiana TV Inc.; Jovon Minority Broadcasting Corp. (Initial dec'n)

NJ Burlington; ch. 48; Angelo Roman

SC Charleston; ch. 24; Charleston Television Partners; Charleston 24 Ltd; South Jersey Radio, Inc.

TX Dallas; ch. 58; El Canal de La Comunidad

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

47 45.6 340 MN Rochester; KXLT

38 97.5 1261 PA Scranton; WSWB

64 158 467 PR Naranjito; WART

FACILITIES CHANGES GRANTED

SC Columbia; WLTX, ch. 19; Granted Construction permit to increase ERP from 1250 kw max/1046 kw hor. to 5000 kw max.; 1749' AAT/1664' AG/2014' ASL (1081' higher ASL); coordinates 34°05'49" / 80°45'51"; TL 11 miles northeast of Columbia City Limits (13.86 miles difference, on a bearing of N75°E). Should be greater coverage area and better DX.

PA Erie; WJET-TV, ch. 24; reduce ERP from 2090 kw Max/1150 kw hor to 1120 kw Max (should be slight reduction in signal strength); same TL and antenna height.

NY Syracuse; WCNY-TV, ch. 24; ERP to increase from 347 kw to 2312 kw max.; 1385' AAT/964' AG/2386' ASL. Same TL, but discrepancies are evident in antenna heights, making it impossible to compare.

APPLICATIONS FOR CALL LETTERS: EXISTING STA'S.

CH C.L. STATE/CITY/APPLICANT

6 WLN5-TV MI Lansing; WJIM-TV

15 KSMQ-TV MN Austin; KAVT-TV

CALL LETTERS ASSIGNED: NEW STATIONS

44 WJTC FL Pensacola; Carnex TV Inc.
62 KMAS KS Wichita; Columbia-Kansas TV Ltd.
9 KWBR UT Ogden; KTTV

20 KXWY-TV WY Casper; Channel 20 Casper Inc.

CALL LETTER CHANGES GRANTED

26 WMEA-TV ME Biddeford; WMEC-TV

15 KSMQ-TV MN Austin; KAVT-TV

45 WNRW NC Winston-Salem WJTM-TV (as mentioned in last month's FORUM; more on that this month)

21 WXII-TV NY Rochester; WXXI

60 KEDV TX Harlingen; KZLN

NEW STATIONS ON THE AIR

IN Evansville; WEVV, ch. 44, went on the air 11/17/1983; 1313.7 kw max/1095 kw hor; 1033' AAT/975' AG/1449' ASL; coordinates 37°53'16" / 87°32'42"; TL State Road #414, east of US Route 41. Henderson, IN; address is Family TV, Inc., 629 Walnut Street, Evansville, IN, 47708.

IL Decatur; WFHL, ch. 23, went on the air 5/13/1984; 1666 kw max/575 kw hor; 1033' AAT/106' AG/1736' ASL; coordinates 39°57' 04" / 88°52'00"; TL near Highway 47, O'reana, IL; address: Decatur Foursquare Broadcasting, 2510 Parkway Court, Decatur, IL, 62526.

OH Columbus; WTTE-TV, ch. 28, went on the air 6/2/1984; 1916 kw max; 965' AAT/1124' AG/

2044' ASL; coordinates 40°09'33.5" / 82°05'21.5"; TL 6680 State Route #3, Westerville, OH. (David Moody says that transmitter location is 20' west of WOSU-TV, ch. 34, and two miles north of Westerville. Because of antenna problems the station is presently operating with about 1000 kw. Address: Commercial Radio Institute, Inc., 6130 Sunbury Road, Columbus, OH.)

CHANGES IN THE TABLE OF CHANNEL ASSIGNMENTS
NY Kingston: add 62; delete 63 (Bill Draeb brought this to my attention. I failed to record this last month along with the changes in Syracuse, NY and Newton, NJ. In order to provide New Jersey with more channels, which the FCC has been trying to do for years, ch. 63 was moved from Kingston to Newton. ch. 62 was moved from Syracuse to Kingston, and 68 replaced 62 in Syracuse.)

OK Grove: add 45+

CONSOLIDATED HEARINGS
CA Monterey: ch. 67 (assigned to Salinas-Monterey); Schuyler-Littlefield Broadcasting Company (proposes station in Monterey); Focus Broadcasting of the Monterey Peninsula (proposes Seaside)
NM Roswell: ch. 8; renewal of license of KSWS-TV (owned by KCBD Associates); application for consent to transfer licensee of KSWS-TV and KCBD-TV from KCBD Associates to Caprock Television Inc.; application for consent to transfer license of KSWS-TV from Caprock to The Stanley S. Hubbard Trust; application for new television station by Western Sun Broadcasting Co.

FORUM

Nate Ely reported WFHL, ch. 23, Decatur, IL, now on the air with religious programming. He and Jeff Kadet both saw XERB, Monterey, Mexico, now on channel 2. Nate reports WRSP-TV, ch. 55 in Springfield, IL, now operating 24 hours a day. He asks, "Will the Xltr guide include LPTV's?" Yes it will. It will include stations on the air and construction permits. It will list ERP for each. I'm still in the process of typing it, and should be finished by the beginning or middle of August. It may be slow coming, but rest assured, it will be here soon. I probably misunderstood Nate's question about K80AW in Dubuque. I have no indication that the translator is planning to change channels, and as far as I know it's still operating. Nate noticed that the old translator list included W56AB in Darlington, WI, which rebroadcasts WMTV, ch. 15 in Madison. But the chief engineer of WMTV says he never heard of it. Is it off the air? Probably not. Most often, station engineers don't know about translators. The Darlington translator is owned by the City of Darlington, and is probably operated by the City Engineer's office. They would have to get permission from the owners of WMTV, not the station engineer. Nate, as well as Bill Draeb are definite about the translators they reported. Let me make it clear that I don't question their reports, nor do I question the

existence of these translators. The problem is that none of my translator lists, nor the Television Factbook, nor the past several years of Television Digest, mention most of them. A few are mentioned as having been applied for, but there is no record of construction permits having been granted. As it stands, nobody seems to know their call letters, and the connection with Iron Mountain and Escanaba seems to be only word-of-mouth. My translator lists caution that they are "unofficial secondary source: use primary source for official information." Here are the translators in question, and anybody with further information please help us out on this. Ch. 60 is transmitting ESPN, but I have no record of an application for ch. 60. Ch. 57 rebroadcasts WLRE, ch. 26. This one is very possibly the former K56EF, which used to relay WLRE. It had expressed an interest in moving to ch. 57, but I don't have record of such an application, let alone a construction permit. Ch. 55 rebroadcasts WBAY, but again, no application. Ch. 61 rebroadcasts WJMN, ch. 3, but scrambles the picture! Again, no application. Ch. 63 shows CBN. This is most likely the former W64AR, which shows WYAH. The flagship station for CBN, and which had applied to change to ch. 63. But I have no record of FCC action on that application. This station is scrambled also. Ch. 65 has ON-TV. I wonder if it could be a translator for WWSN-TV, ch. 44 in Chicago, but again, no application on record. Ch. 43 is probably the former W75AE, which translates WLJK, ch. 11. W75AE applied to change to ch. 43, but again no record of FCC action. Ch. 67 shows MTV, and is scrambled. Here again, no application. So what is happening up there is anyone's guess. I wrote to the company that owns the Iron Mountain translators two weeks ago, but haven't received a reply yet.

Nate also reported a new station: KIDY-TV, ch. 6 in San Angelo, TX. Chief Engineer Edward S. Mateo replied to Nate, "We began serving the Concho Valley of West Texas on May 16, 1984 as the area's only independent television station." Address: 405 South Irving, San Angelo, TX, 76903

Speaking of new stations, Bill Draeb saw KLYB, ch. 4 in Colby, Kansas, testing their transmitter in June, and they planned to go on the air July 1 with regular programming. Nate Ely mentioned to Bill Draeb that KOWY, ch. 5 in Lander, Wyoming, is a satellite of KCWY-TV, ch. 14 in Casper, WY.

New member Rich Berg-Andersson replied to my questions on WOR-TV's sincerity as a New Jersey station. "Is WOR-TV sincere about being a New Jersey station? I think so, considering the circumstances. They seem to emphasize the New Jersey angle on "Tri-State" stories (such as severe weather which hits the Metro area. The other VHF's cover Long Island and Westchester, rarely N.J., on such stories. WOR-TV seems to cover only N.J.)"

"WOR-TV is also loaded with N.J.-oriented programming, such as "New Jersey Report," "New Jersey People," "Nine on New Jersey," and "Newark and Reality." Even old Ch. 9

staple "Meet the Mayors" is now N.J.-oriented." My thoughts of detecting favoritism by its treatment of area codes apparently wouldn't work. Rich points out that there are so many area codes within range of the New York City stations that all ads with telephone numbers include area codes.

Rich asks, "...can WOR-TV be regularly received over-the-air in Bridgeton and Southern N.J.? What effect, if any, does WOR-TV have down there? How do the people down there feel about receiving—or not receiving—N.J.'s VHF station?" Rich also brings up the periodic hostilities between northern and southern New Jersey. Actually, nobody in southern New Jersey watches WOR-TV. When I lived in Somerdale, Camden County back in the early sixties, I could get in New York TV stations sometimes, and apparently so could others, because the local pharmacy gave in to selling New York TV Guides under the counter. Right now, most cable companies carry WOR-TV, but most subscribers look at it as another cable extra. I don't think anybody except the politicians care where the stations are located. Philadelphia supplies all the network programs, syndicated shows and movies, which is what people want. New Jersey Network supplies more than enough New Jersey coverage for most people. There isn't really that much news to report in South Jersey, except for Salem Nuclear Plant shutdowns (upwind from Bridgeton!) and Bald Eagles found in Dividing Creek. Most of the hostilities between north and south are because of the neglect of government funded projects in the south, and environmental regulations like the Pinelands. Wetlands, and Farmlands acts, which stifled development in the southern counties. Despite being a New Jersey resident, I object to the efforts of the New Jersey Legislature and the previous governor to force New Jersey coverage on television stations in other states.

I have been running late these last few months typing this column, and haven't been proofreading before sending it in, and this month's column probably won't be any different. But I really blew it bad last month! I really should be more careful!

John Combs caught a few, which were compounded with a few coincidental similarities. As reported on page 12 last month, WNHT, ch. 21 in Concord, NH, is on the air, and confirmed by George Mileon on page 15. But John Combs was talking about WHNS, ch. 21 in Asheville, North Carolina, which I mistook for WNHT. They came Tim McVey on page 17. I knew that he meant WHNS, but to make things worse, I mistakenly typed 32 instead of 21.

Frank Aden of Portland, OR, reports that KWHP, ch. 14 in Boise, ID, will be on the air soon from a transmitter location near Star, Idaho, which is about 15 miles west of Boise, on the tower of KKIC (AM). KWHP had originally planned to be on Deer Point, northeast of Boise, where the other stations are, but since the other local communica-

tions transmitters are there, KWHP was chased out. Frank heard rumors that KWHP might be limited to one kilowatt. I suspect that being on channel 14 presents interference to services operating just below 470 MHz. Sounds to me like KWHP will have a hard time, what with three network stations on VHF, and nobody in that area what that second channel dial on their television set is for. (UHF? What's that? I'm gonna have to what?! I already got an antenna on my roof. Why should I have another? Why can't it? Well, if I get this new antenna, what will I get to see? Reruns of what!!! But I never liked the Lucy Show! What? Did you say movies? Three times a day? And game shows? Wow!!! Put one on my roof! But my TV only goes up to channel 13. You mean that dial? Funny. I never noticed that dial before.)

John F. Zeis sent some information as well as a few questions. What is the status of ch. 61 in Wilmington, Delaware. I didn't realize it, but ch. 61 plans to build its transmitter just of Woodstown, New Jersey. I tried to find some information on them. Their offices are or were in Pennsville, New Jersey, but I couldn't find any listing in the phone book there or in Wilmington. I checked the transmitter site based on the coordinates of their application. Nothing there but a weed-ridden cow pasture and a few run-down barns. What about WBRE (ch. 28 in Wilkes-Barre, PA), which applied for ch. 60 in Bethlehem, PA? I don't have anything on that. John says the application is still mentioned in the 1984 Television Factbook.

I did get some information about channel 24 in Baltimore. I remember shortly after they got their construction permit, Tom Yingling sent me some information about them: They were still raising money to buy a site for their studios and transmitter. I wrote to them shortly after getting John's letter, and already received a reply. (And a coverage map no less!) They have a new station manager: Ken Buschman, who was station manager of WPTT-TV, ch. 22 in Pittsburgh. He was also a news announcer for WBFF, ch. 45 in Baltimore. WJKL-TV, ch. 24, signed a lease to put their antenna on an existing tower (1073' AAT/900' AG/1405' ASL), and will operate with 1180 kw ERP. The transmitter tower is off Route 40, just west of the Beltway, which will give good coverage to Frederick County MD and York County, PA. Leasing the tower will mean a lower initial cost and an earlier air date. They sold the 84 acre property originally intended to be their studio location. Their new facilities will be on South Dolfield Road, Owings Mills. They applied for a CP modification on 5/22 to cover the changes mentioned above. They hope to be on the air by the end of 1984. It looked as if they were dragging their feet at first, but are now making progress.

John also sent me a list of facilities changes which have already taken place. Unfortunately most have been listed in earlier columns, and won't be repeated, but here are a few that I did not list.

For example. WHNS. ch. 21 in Asheville. NC. which I have tended to confuse with other stations. went back on the air on 4/1/1984. probably with technical figures in their CP. which is: 3349 kw max; 2509' AAT/1609' AG/ 5049' ASL. WNBO-TV recently made a change to the World Trade Center, but made a later change since then. Now 17.4 kw max. 1690' AAT/ 1729' AG/1741' ASL.

Another area of interest mentioned by John is in television stations which are currently off the air, and what their plans are. WCAE, ch. 50 in St. John, IN, was sold, and its new owner has a CP for improved facilities. WWAC-TV, ch. 53 in Atlantic City, NJ, went bankrupt, but mentioned a potential sale. (I suspect this is actually a potential change of hands: the bank is apparently foreclosing on its properties.) WAXA. ch. 40 in Anderson, SC. plans to resume this summer with a stronger signal. KZLN. ch. 66 in Harlingen, TX, went dark last August with no apparent plans to go back on.

To backtrack on a few of the earlier commenters, Bill Draeb had questions about a ch. *34 in El Dorado, AR. There is already a ch. 34 assignment in Texarkana, TX, which is too close to El Dorado. I questioned it also. Television Digest reported it, but never mentioned the assignment of 43- to El Dorado the same month. The Federal Register mentioned 43-, but never mentioned *34+. Probably Television Digest was mistaken. Frank Aden mentioned that KTDZ, ch. 40 in Portland, OR, is supposed to go on the air later this fall.

John M. Lentz heard WCGV-TV, ch. 24 in Milwaukee, WI, announcing that it was dropping its STV service as of 7/7/1984, and will be another independent commercial station with movies during prime time and some CBS late-night programs. Also, Local Service Television of San Diego, was chosen in LPTV CP lottery to build a ch. 8 station in Milwaukee, WI, with a 10-15 mile radius coverage area. WFBN-TV, ch. 66 in Joliet, IL, dropped its SPECTRUM STV service on 6/15. They're now broadcasting music videos from MTV all day until midnight. An article he sent from the 7/2/1984 Milwaukee Sentinel expounded on it. Selec-TV, its STV service, had been losing money in the Milwaukee area. The decision was made by Selec-TV, although general manager George Drymalski had objected to the dirty movies shown at night. On Saturday nights WCGV will show horror films hosted by Los Angeles based horror queen Elvira (That's something like Roland or Zacherly, which you older members might remember.)

Larry G. Fuss caught me in another mistake. It was WGTV, ch. 8 in Athens-Atlanta, that changed to WPBS and later rescinded their request after PBS objected. WVEU ch. 69. Larry confirms, was interfering with land mobile radio, and had to foot the bill to have all the land mobile stations change frequency. It was the FCC that assigned ch. 69 to Atlanta when the owners of WVEU applied to have ch. 63 assigned to Atlanta. "So why hold the station liable for any interference?"

With FCC deregulation, almost anyone can file for a new television station. and Larry

is able to help find an available channel or make an available channel (i.e. petitioning the FCC to assign one.). Many WFTDA members are already involved with television stations and perhaps others would like to become involved. If interested contact Larry at P.O. Box 3976, Jackson, GA. 30233-0976. He guarantees that he will design transmitter towers above sea level, now below, as certain other parties have been doing. Speaking of which, Larry noticed in the 7/2/1984 issue of Broadcasting seventeen applications for new television stations either directly or indirectly connected with Michael Thurman. Six of them call for 5 kw ERP as usual, for visual, but at the same time propose 50 kw aural! Two applications are for channels where construction permits were already granted. (Actually, I counted five, not including Pine Bluff, AR, which I think is still vacant. Also, there is no assignment for three of those applications, unless the magazine printed the wrong channel.)

Mike Dorner took note of some of the formats evident in television stations lately. Along with the increase of Christian television stations owned by protestant groups, the Roman Catholic Church is also going heavily into television, with KCHF (ch. 17, Santa Fe). KIHS (ch. 46, Guasti, CA), WLAF (ch. 32, New Orleans), KDTU (ch. 27, Tucson), and privately owned WLIG (ch. 55, Riverhead, NY). This seems to include station ownership and programming. Another new format is video music. (I already mentioned WVEU-TV, ch. 69, and WFBN-TV, ch. 66; another person wants to construct a ch. 55 in Lake Dallas, TX, with a video movie format. I question how successful this format will be. While video music will definitely be with us for a while, I suspect that its present popularity may be only a temporary thing. Mike also gave a list of old construction permits with an interesting history of the construction permit for WTVU, New Haven, CT, which was granted on June 24, 1954! A thirty year old construction permit! More on that in a future issue, but I'm trying to keep the summer issues short.

I owe Walter Patton a big apology! I found the missing January letter in a folder with a list of CBC repeater stations. I was updating the repeater list with his information when the translator microfilm came. Then I put the Canadian file aside and forgot all about it. That information will appear in next month's column.

Also next month: more on WTTE-TV, ch. 28, sent in by David Moody; FCC's action on excessively noisy television commercials. If you can dig up the 6/29/84 USA Today, check out page 10A, or whatever the opinion page is in your area. The issue of the day is the recent massive FCC deregulation of the broadcasting industry. I'm still trying to find out exactly what rules were dropped, in addition to the ascertainment of public needs and news coverage. But this will be covered heavily in a few months. If you have an opinion on this, send it in.

WESTERN TV-DX

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105

Deadline: 9-7-84

August 1984

There are quite a few reports this month; even though, the consensus of the reporters seems to be that June has not been an outstanding DX month. In fact, many would say that June has been an outstandingly poor month for DX!

New New Mode Tent. - t Unidentified - unid S/On - + S/Off - =
ID Color Bars - # - Unid Color Bars - % IHTP - \$ Misc. Test Patterns - &

John Ebeling, 9209 Vincent Avenue South, Bloomington, MN 55431

CDT

On June 8 (Friday - I took off work), up here at the cabin (Prosit), I had the TV on all day and the following were ID'ed:

June 1984	8 Es 1630	WCBD	2 SC	8 Es (MUF 107.5 # 1944 -TX)					
8 Es 0830	WBRZ	2 LA	1700	WWL	4 LA	1945	CFAC	2 AB	
			1030	KMID	2 TX		WBRZ	2 LA	
			1100	KPRC	2 TX		1900	CKTV	2 SK
							2100	WBRZ	2 LA

This has got to be, in my opinion, one of the least productive June Es months that I can recall in all of my DX'ing years. I have spent a total, so far, of 15 days at the cabin watching the low band, especially channel 2 and have not really seen very much. It seems as if even the 27 MHz CB band had more Es during the winter that it has had during June this year.

Yesterday afternoon, the 25th, I noticed an opening for about half an hour on channel 2. At 1250, I began receiving full color bars with tone. They lasted, with fades, until about 1320. No ID was given on the hour and no call was superimposed over the bars. The direction was south or southwest.

Later on, another opening developed. I noticed it on channel 2 about 1715. At 1730, KUTV-2, Salt Lake City, UT identified. At 1800, KETS-2, Arkansas Public TV was in. Also had a short but intense Es on channels 3-5. Texas was in on channels 4 and 5 with north Texas news, but no ID was noted, and the opening never made it to the FM band as far as I could tell. At 1830, I left the cabin for Minneapolis, as the opening seemed to be fading out. About an hour later, even CB was devoid of skip, so I guess I didn't miss anything!

William Draeb, Ellis St., Rt. #2, Keweenaw, WI 54216

CDT

Es continues to be only "fair" here with most openings weak and/or of short duration. Most only made it to channel 4, too.

I saw KLBY-4 testing at 2030 (6/25) with 3/4 color bars. I called the station and was told they had been testing for about 1 1/2 weeks and expected to begin programming on July 1st. Like a nerd, I forgot to ask which network, if any, they would be carrying. On their 3/4 color bars was a bunch of info including their PO box number which is 562.

A long and rather uneventful dry spell for Es from the 10th to the 22nd made June worse for Es here (so far) than May.

May 1984	13 Es 1218	KJACT	4 TX	23 Es/Au 2142 chs 2-4 ne
1 tr 1958	WGRB 34 KY 508	14 Es 1215	WCBDt	2158 KATC 3 LA
	WTWQ 36 KY 473		WSB t	2202 KJACT 4 TX
	WKLE 46 KY 473		1225 WESHT	WBRZt 2 LA
6 Es 0733	WCBDt 2 SC	2050 unids chs 2 - 4	2227 CKSAT 2 AT	
	unids chs 3 & 4	19 Es 1425	CITL 4 AT	
0805	KDBC-4 or KAMR-4		unids thru ch 6	
	(Miss Hispanic Pageant at Eisenhower Jun HS)	1530 WMAB 2 MS	2305 CBKFT2t 3 SA	
		WKRct 5 AL	2307 CFPNc 3 AT	
		WDSU 6 LA	2325 CKBI3t 4 AT	
0824	#KCWSt 3 CO	1840 KNDX 2 ND	2340 CKBIT 5 AT	
1132	KID 3 ID	KWSE 4 ND		
	KSL t 5 UT	20 Es 1012 unid ch 2 south	24 Es 0845 mid channel 2	
	KTVt 2 UT	1900 unids chs 2-4 s	1045 KATC 3 LA	
1402	KPRCt 2 TX	22 Es 2340 WLBZt 2 ME	1933 KSAF 2 NM	
	KATct 3 LA	#CHSJt 4 NB	2027 KPRC 2 TX	
13 Es 1218	KPRC 2 TX	unid channel 3	KBTxt 3 TX	
	KBTxt 3 TX	CKOW 2 NB	2039 KENW 3 NM	
			2040 KAMR 4 TX	

William Draeb (continued)

7 Es 1455 KUTV 2 UT
KTVX 4 UT
KCWC 4 WY
KTWS 2 WY
KPRC 2 TX
unid ed west
(TV auction)
KOTA 3 SD
(ABC prog promo)
KWSET 4 ND
KMET 3 ND
KID 3 ID
KDFWT 4 TX
KFDX 3 TX
KDFWt 2 LA
KDFWt 4 TX
unids chs 5 & 6
KFDX 3 TX
KTVX 4 UT
KAMR 4 TX
KTBS 3 LA
KXAST 5 TX
KMOL 4 TX
KFDX 3 TX
KTVX 4 UT
KAMR 4 TX
KTBS 3 LA
KJAC 4 TX
KARK 4 AR
KENWt 3 NM
WCAET 2 SC
1930 WSAV 3 GA
1937 KIII 3 TX
2028 KRLST 6 TX
2115 KMIDt 2 TX
2120 KWABT 4 TX
Many unids.
9 Es 1400 unid ch 3 south
1805 KPRC 2 TX
1940 unid ch 4 nw
(Expos vs Mets, English
commentary. Same on
channel 6. Other unid
chs 2-6. All gone by
2100. Returned 2240
briefly.)
11 tr 2115 CKY 2 ON
(Over WBAY-2. Strong
lake inversion.)
12 Es 1235 KPRC 2 TX
1945 KPRC 2 TX
1955 KMIDt 2 TX
15 tr 0813 WFIE 14 IN 420
WEVV 14 IN 420
WGRB 34 KY 508
WTVQ 36 KY 473
KDNL 30 MO 432
0828 WBAK 38 IN 348
(Vy strong. Over WCFC
and WPNE. Central IL
and IN U's snowfree.)
17 Es 1139 unids chs 2-4 s
20 tr 0054 KDNL 30 MO 432
(Removed "Mighty Mite")
2 Es 1956 WPBT 2 FL
("Cosmic Hotline 854 -
2222" ID at 2000)
2002 WESH 2 FL
2005 WEDU 3 FL
2009 WRBL 3 GA
2010 WTVY-4 or WTVJ-4
2140 WCIXT 6 FL
2149 WJXT 4 FL
3 Es 2105 CKTV 2 SA
unids chs 3 & 4
4 Es 1930 unid ch 2 south
2048 KMOL 4 TX
2101 KPRC 2 TX
KETXT 3 TX
unids chs 5 & 6
2114 KDFWt 4 TX
KUTV 2 UT
KTVX 4 UT
KSL t 5 UT
KID 3 ID
KCWC 4 WY
KRExt 5 CO
2130 KTWO 2 WY
2240 All gone, but
returned weakly
at 2300.
7 Es 1305 unids chs 3 & 4

20 tr 0745 W51AF 51 IL
21 Es 1615 unids
(La Salle LPTV)
1815 WWAY 3 NC
WEZ 4 MA
1900 WPBT 2 FL
1917 WESH 2 FL
2327 KTVQt 2 MT
KYUST 3 MT
KOUS 4 MT
KXLF 4 MT
KXLYt 4 WA
KTVQt 3 MT
KTVQt 2 MT
0013 KTVt 6 MT
0020 KLEWt 3(WA)
(DX still in e 0110 on
channels 2-4. I went
to bed.)
1220 KTVQt 2 MT
KTVQt 3 MT
KOUST 4 MT
KXLF 4 MT
unid ed ch 4
KBMET 3 ND
WPBT 2 FL
WDIQt 2 AL
WTVJt 4 FL
CITL 4 AT
CFRNT 3 AT
CKSA 2 AT
CBXTt 5 AT
CBXFTt 6 AT
CFQCT 6 SA
CKBII 4 SA
CKBFT 2t 3 SA
0000 All gone.
23 Es 1240 WESHt 2 FL
24 Es 1611 WCBST 2 NY
WPSBT 3 CT
WBNT 4 NY
WTVQ 36 KY 473
0800 WIX 19 OH 400
Es 1900 KUTV 2 UT
KTVQt 4 UT
1925 KJACT 4 TX
KATC 3 LA
KCMC 4 WY
2025 KTVQt 3 MT
KYUST 3 MT
KLEW 3 NE
2030 KLEW 4 KS
CITL 4 AT
WTVQ 36 KY 473
WTW 19 OH 400
WCET 48 OH 400

James J. Stiles, CFAo/NAFK, Box SU/LR ADP, FPO Seattle, WA 98770 (Okinawa)

JST

Equipment: Sharp 26" PAL/SECAM/NTSC color model C261-SPN, AOR Ltd. AR-2001 25-550 MHz Scanner, Grove Power-Amp wide-band preamp, three element 50 MHz yagi beam, Grove Scanner Beam.

May 1984
14 Es 1900 C1-C5 unid China

16 Es 1130 C1-C5 unid China
FM to 95.6 China

James Stiles (continued)

16 Es 1830 R1 Vladivostok, Russia
1900 C1 Harbin, China
17 Es 1800 C1-C2 unid China
25 Es 1200 C1 unid China
1815 A2 DWWX Quezon City, Philippines
26 Es 0930 C1-C2 unid China
A2 Seoul, Korea
A3 Jinju, Korea
A4 Yeosoo, Korea
1015 C3 & C4 unid China
A5 Seoul, Korea
FM to 96.4 China
1830 C1 unid China
27 Es 0800 R1 Vladivostok, Russia
0830 A2 Seoul, Korea
A3 Jinju, Korea
A4 Yeosoo, Korea
0845 A4 DYBQ Bacolod City, Philippines
A2 DWWX Quezon City, Philippines
A3 DYDY Cebu City, Philippines
0855 A5 Seoul, Korea
C2 & C3 unid China
A6 DWB Baguio City, Philippines
0900 A6 Masan, Korea
2E 0910 E3 Malaysia (Double Hop)
A3 DYDY Cebu City, Philippines
FM to 94.7 Philippines
1000 FM to 99.5 Hong Kong
1630 Es continued until this time.
1800 R1 Vladivostok, Russia
C2 Changchun, China
R2 Komsomolsk, Russia
2000 A2 DWWX Quezon City, Philippines
C3 & C4 unid China
28 Es 0900 C1 & C2 unid China until 1500
29 Es 1730 C1 unid China
30 Es 1900 R1 Vladivostok, Russia
31 Es 1200 C1 & C2 unid China
1700 A2 DWWX Quezon City, Philippines
A4 DYBQ Bacolod City, Philippines
June 1984
1 Es 1200 C2 unid China
1730 R1 Vladivostok, Russia
2200 C2 unid China
2 Es 0830 R1 Vladivostok, Russia
1800 C1 unid China
3 Es 0800 A2 Seoul, Korea
0830 A3 Jinju, Korea

Late May and early June provided the best openings thus far this season. On May 27, Es began at 0800 and (with the exception of 1630-1800) continued until 2000 with 2 Es at 0900. A six hour opening occurred the next day, and on June 3, a ten hour opening occurred. However, by mid-June, the duration, intensity, and MUF of openings significantly declined. While conditions now are below average to marginal, openings continue to be logged on a near-daily basis.

(Jim, I am wondering if your listing of DYBQ on channel 3 and DYB on channel 2 both in Baguio City is in error? I don't have a Philippines station list handy; so am, at the moment, unable to check where you may have meant to indicate their locations to be. fm)

Jim Pizzi, P.O. Box 1778, Lovington, NM 88260 (505)-396-3251

MDT

Equipment: Panasonic 12" b&w, Sony 8" b&w, Panasonic 13" color, Motorola 19" color, Finco P-7 with EU-4S at 70', OM 6' with EU-4S at 35', Winegard 2073 (channels 7-13) with AC-9730 preamplifier at 75', Winegard 2026 (channels 2-6) with AC-9260 preamplifier at 30', plus other antennas.

Unfortunately, I can't do this. I have to worry about how much a trip will cost. I only have a limited amount of time that I can take each year away from work. I have to plan almost every minute of a trip in order to get the most out of it. If I like a place and I want to explore it, I can only stay as long as my plans permit. I am stuck being a tourist. When I'm away, I get a small taste of the place I'm in. I try to savor it as long as I can, but it is never enough.

As a DX'er, I have an advantage over most other tourists. For a few moments of an opening, I can place myself back on a past trip. I can remember the places I saw, the foods I ate, the smells, the sounds. I can imagine myself back in the hotel room listening to a radio station or watching the television. For a few moments, I would get a chance to do one of those things I'd do as a traveller.

For those planning trips this summer, or who have already taken one, I wish you the best of times and I hope you will get to do all that you planned.

Taking a trip is not without its troubles. This leads me to Part 1 of "The Trip To TORONTO, the 1984 ANARC Convention". Originally, I planned to drive to Toronto. Being at least a 12 hour drive, I figured I take July 19 to the 23rd. I submitted my request to my supervisor. A month later, she said "you can have the 19th, 20th but not the 23rd". If I drove, I'd walk in like a zombie, so my wife suggested that we fly. She said we could fly People's Express to Buffalo and rent a car. So we went to the travel agent who was planning our trip to Columbia. She said the off-peak fare is \$27 each way but we'd have to go to Newark Airport at 5 AM. She then told us of a fare on US Air for \$49 out of LaGuardia. I said that we had to think about it. I went to her later in the week to find out about rental cars. She called one company who gave her a rate of \$51 a day. I figured it would be cheaper to drive and walk in like a zombie on July 23rd. So, I went home and called several rent-a-car companies. All gave me weekend rates of \$17 or \$18. This isn't the first time the travel agent gave us wrong information. So, we figured we'll just book our air line reservations with her. We went to see her the following Saturday. We walked in there and it seemed like everyone who knew her was in there. We finally were able to get her assistant to call the airline. This time they told her the fare was \$54 each way. I told her I wanted to check this out. We went home and I called the airline. I got a fare of \$54 going and \$49 return. I booked the flights. I then went ahead and reserved a car. I have since booked our trip to South America and reserved the hotels. We have not gone back to that travel agent. After this experience, I may never go to another travel agent.

Next time, Part II- The Convention.

Here are some DX get-togethers and conventions of interest:

AUGUST 4 The Chicago Chapter of RCMA 1PM at Nancini's Restaurant-5555 St. Charles Rd. Beckley, IL. For more information call Edward Robert Sirovy at 1-312-969-2856.

AUGUST 4 Washington Area DX Assoc. Cookout and picnic Lucy Woods Park, Arlington, VA. Call Arlene Luskin at 1-301-593-4411 for more information.

AUGUST 4 American Shortwave Listener's Club 10AM--3PM at the club's headquarters - 16182 Ballard Lane - Huntington Beach, CA. Call 1-714-846-1685 for details.

AUGUST 17-19 International Radio Club of America The Annual convention at the Sheraton Westgate Hotel in Toledo OH. IRCA is a club for MW (AM) DX'ers.

AUGUST 21 Austin Area Radio Listeners 7PM at the Austin Public Library

4th floor - Room B - Austin, TX

SEPTEMBER 1-3 National Radio Club's annual convention in Colorado Springs, CO. For more information, write to Wayne Heinen - 1642C South Indiana Drive - Aurora, CO 80017

Don't forget to send a SASE with your request and please mention that you heard about it from WFD.

I'd like to thank Dave Browne, ANARC's News Editor for letting me know of these upcoming events.

Well, it's time to get a new correction pencil.

73's
Silver P Spachman.

QSL CORNER

Thomas J. Yingling, Jr.
221 Pinewood Road
Baltimore, MD 21222

11 WTVD
together

September 19, 1983

TV-QSL copies & others.

WTVD-TV ch. 11, 411 Liberty St.
P. O. Box 2-09, Durham, NC 27702
reply in 1 week from Edward T.
(Fahber)

WOPO-TV ch. 23, P. O. Box 609
Altoona, PA 16603. reply from
John R. Powley, owner reply in
1 month. (Reid)

WTKE-TV ch. 33, Burlington, VT
Ethan Allen Ave., Winooski, VT
05404-1097 from Hope S. Green,
GM in 11 days. (Reid)

WTW-TV ch. 44, 1844 Baty Rd.
Lima, OH 45807 reply from
Roger Rhodes, PD in 2 weeks.
(Reid)

WISH-TV ch. 8, 1950 N.
Meridian St., Indianapolis, IN
46202. reply from John ?
(unreadable) in 3 1/2 weeks.
(Reid)

Mr. Bill Fahber
336 Atlantic Street
Bridgeton, New Jersey 08302

Dear Mr. Fahber:

Thank you for your letter confirming off air reception of WTVD,
Durham, North Carolina.

WTVD uses a maximum TV facility transmitting from atop a 2000'
tower with a circular polarized transmitting antenna, with a nominal
radius of 60 miles. Under unusually atmospheric conditions are right to
expand the radius usually only for a short period of time, several
hundred miles through a phenomenal 'all' cloud ducting.

We would be interested to hear your comments in the future, should
you continue to receive WTVD with any regularity.

Our program log entries agree with your reception for September
11 and 12, 1983.

Thank you for your interest in 11 together.

Sincerely,
Edward T. Wall
Edward T. Wall
Chief Engineer

WTW/ism

WOPC ABC Primary for Altoona • Central Pennsylvania

PO Box 609
Altoona, Pennsylvania 16603
Telephone 814-943-2607

September 19, 1983

Mike Reid
109 Arley Crescent
Willowdale, Ontario
CANADA M2L 1C6

Re: Reception Report

Dear Mr. Reid:

Thank you very much for your letter of August 22, 1983
concerning your reception report on WOPC at 9:50 AM on August 19, 1983.

Your report is correct as to programming and our ID. What you
may not know is that WOPC is operating on only 21 kW visual output
power and is perhaps the smallest UHF TV network affiliated station
in the USA. We have generally only one man on duty in the control
room running the TV station (but also running our 250 watt FM station!!!!).

If you receive us again, we would appreciate hearing from you.
We have been fighting with Cable TV systems 15 to 25 miles away that
don't wish to carry us for 9 years.

Sincerely,

John R. Powley
John R. Powley
Owner

Sorry folks about miss-
ing last month VUD, So
this month is an 2-pager!
I'm still low on qsl
supply to type up. So
send some in. The special
I did on reporters to the
QSL Corner a few months
ago, may have an update
soon! I got an complete
list from Don Erickson
& others. Just as soon as
I get time I'm going use
my computer to print it
out.

TELEVISION PSYCHOSIS



Eastern TV-DX
be at least 84' from your dish-wd.) April 13 was a very good day here with a rare Es opening to the NE that brought in excellent pictures. Regarding the question in the June VUD about KPRY-TV changing networks, they were ABC on 5-31 when I saw them and they're listed as ABC in the 15th ed. of the Vane Jones guide.

Saul Chernos: 79 Ridge Drive, Toronto ON M4T 1B6 EDT
From Burnt River ON:

<u>May 1984</u>	<u>May 1984</u>	<u>May 1984</u>
13 Es 1600 WDIQ-2 AL	21 Es 1226 WPTV-5 FL	24 Es 2000 WPBT-2 FL
1607 WIVJ-4 FL	1700 WESH-2 FL	2030 KATC-3 LA
14 Es 2300 KJRH-2 OK	23 Es 2330 <u>KSRE-6 ND</u>	2330 KPRY-4 SD
2304 KTIV-4 OK	Minot	KDUH-4 NE
15 Es 2100 KSNC-2 KS	KWSE-4 ND	2358 KTWO-2 WI
19 Es 1240 WESH-2 FL	24 Es 1955 WJXT-4 FL	29 Es 1945 WBRZ-2 LA
	1956 WESH-2 FL	

From Toronto ON:

<u>May 1984</u>	<u>May 1984</u>	<u>May 1984</u>
7 Tr 0025 CICO-28-28 ON	7 Tr 0030 WUHF-31 NY	12 Es 1510 <u>KPRC-2 TX</u>
0028 WXXI-21 NY	12 Es 1430 WBRZ-2 LA	Houston

Nice start to the season though it died somewhat at month's end. I do very little TV DX in Toronto, mostly while visiting other DXers, heh! I spent most of May 23 opening on FM where I had SA, MB, ON, (NW!), ND, MN, and MT. TV was a mess of signals! 73's and good DX.

Harry Hayes: 9 Henry St., Wilkes-Barre, PA 18702 EDT

Usually when I write a DX report early the band breaks out wildly the next day. Let's hope that this is the case this time. How could a May with so much Es promise turn into the worst June that ever happened? I don't know, but it did. Am I nuts, but wasn't there a time when summer Es was a rather common occurrence? Undoubtedly this year, as in the previous six below average skip seasons there will be those nearby who will be raving about a productive season. This is something which mystifies me about VHF DXers and I'm kind of shy to say it, but almost irks me as well. (I'll have to agree with you Harry. I couldn't have put it any better. I really haven't seen the "intensity" in the Es openings so far this season and there was a long dry spell, about 10 days here, in June when virtually nothing was seen. I suppose there are those who did see a lot of good openings and happened to be in the right place at the right time. Let's hope it gets better before it gets worse.-wd) On the other side of the coin, we still have eight more days to go in June and July as well, so who really knows what 1984 will turn out to be. Also there have been a few nice tropo days, although not as many as one might suspect with all the early hot days. Equipment: Winegard 2-6 VHF yagi in attic w/CM amp. Finco 6' UHF dish with Winegard PA-4975 amp. mounted in attic. RCA ColorTrac 25" TV.

<u>May 1984</u>	<u>June 1984</u>	<u>June 1984</u>
26 Tr 1700 CICA-19 ON	8 Tr 0702 WIVT-39 PA 45	13 Es 1230 KATC-3 LA
Es 2000 KSNC-2 KS	(normally mountain blocked)	1730 WPBT-2 FL
29 Tr 1801 <u>WMDT-47 MD</u>	0705 WTHY-54 NY 80	WESH-2 FL
Salisbury	Poughkeepsie	WUDU-3 FL
	(almost snow free)	1756 WTVJ-4 FL
June 1984	0730 WTVB-51 PA 100	1930 WTV-4 AL
2 Es 2030 KATC-3 LA	(SelectTV promos)	18 Tr 1730 WVTB-41 VT 215
3 Es 1630 Unids ch.2	WIVT-33 PA 100	19 Es 1318 WLBT-3 MS
8 Tr 0652 WUTR-20 NY 135	0735 WCNY-24 NY 135	1320 WMAB-2 MS
(perfect signal)	(good signal)	1330 KTBS-3 LA
0700 WCPB-28 MD 150	0900 WZI- NY (WSKG)	2230 WIDS-50 NH 100
WGB-49 PA 100	(PTA Liberty NY, fair sig.)	2243 <u>W59AT NY</u>
Red Lion	Es 0930 chs.2-5, intense, short.	Plainview

New underlined. Yes, kind of sparse in the skip dept. I'm also unemployed this summer so I keep an eye on the set at virtually all times so you daytime working people can rest assured that you're not missing much, at least here in the north-east. Total now 186 seen. (Harry, I would like to take this opportunity to commend you on your artistic efforts when you draw for the cover of the VUD. I always get a kick out of your drawings and it's unfortunate that more of us aren't gifted like you in that department.-wd)

Cunningham, continued--- August 1984

Eastern TV-DX Thomas J. Yingling Jr.: 221 Pinewood Rd., Baltimore MD 21222 EDT August 1984

<u>May 1984</u>	<u>June 1984</u>	<u>June 1984</u>
29 Es 2230 KLNE-3 NE	8 Tr 2200 WENY-36 NY	8 Tr 1931 WNJU-47 NJ
Tr 2200 <u>WMGM-40 NJ</u>	2212 WMGC-34 NY	2000 WFMZ-69 PA
Wildwood	2225 WVT-30 CT	2005 WNJB-58 NJ
31 Es 2230 KLNE-3 NE	2230 WSKR-38 MA	2010 WNJT-52 NJ
	9 Tr 0130 WTHY-54 NY	2030 WSBK-38 MA
	0135 WNLW-22 MA	2035 WNJM-50 NJ
	0740 WGCI-48 NC	2038 WEDH-24 CT
	Springfield	8 Tr 0750 WPCQ-36 NC
	0130 WPGH-23 PA	0755 WPTF-28 NC
7 Tr 1630 WNVE-25 NY	2045 WLTV-39 PA	0800 WLFL-22 NC
1645 WRLH-35 VA	2100 W59- NY	13 Es 1700 WEDU-3 FL
1650 WENY-36 NY	2105 WXXX-20 CT	1730 WEAR-3 FL
1205 WNYC-31 NY	2130 WDCD-19 MA	1740 WCOLX-6 FL
1945 WXTV-41 NJ	2145 WNPB-31 MD	1800 WPBT-2 FL

Equipment: Sony KV-1214 12" color TV. Quantum 1114 at 45'. Finco 5' dish at 50'. Preamps: Winegard BC-234; DX Labs EU-4s; Blonder Tongue CMA-Ub 75 ohm; CDE AR-22L rotor. VCR: Magnavox VHS 8 hour, Model VR8400BK01.

Trap: Channel Master #7008 tunable Q trap, low band-FM. Now using EU-4s amp., I got the variable gain model so my locals don't overload it. Also got a VCR to tape my DX on. Now I'm making a video I.D. tape of my DXing. Also using my Timex-Sinclair 2068 computer as my logbook. 73's. See you at Jamestown.

Roy Barstow: P.O. Box 488-T, Teaticket MA 02536 (617)-548-2329 EDT

<u>May 1984</u>	<u>June 1984</u>	<u>June 1984</u>
24 Tr 2100 WHRO-15 VA 440	11 Tr 0650 Unid-14: Spanish	17 Tr 1500 WERE-28 270
2115 WBOC-16 MD 340	Philly?? Tom Ying-	WITF-33 325
2200 WUNM-19 NC 595	ling, do you know	to WTHY-54 170
2240 WCPB-28 MD 340	who they are?	WLVT-39 PA 260
2250 WTVZ-33 VA 440	12 Tr 2200 WAPB-22 MD 360	WVIA-44 PA 270
2300 W44AD(WTKR)380	WCPB-28 MD 340	1700 WDAU-22 PA "
WMDT-47 MD 340	2230 WDCA-20 DC 380	WMGC-34 NY 275
	WETA-26 DC "	WERZ-46 NY "
25 Tr 0110 W63AM(WAVY)392	WCQR-50 DC "	(ex-WSKG ???-wd)
0200 Unid-33; religi-	2300 WTKK-66 VA 410	to WICZ-40 NY "
ous, appeared same	2310 WTVZ-33 VA 440	to WCNY-24 NY 300
as WHCI-18.	2315 WRLH-35 VA 450	1800 WNN-31 VT
	2330 W35AB(WXTV)260	22 Tr 2100 W59AT NY
	W44AD(WTKR)380	W64AA(WNEW)180
	2300 WTKK-66 VA 410	W66AA(WABC) "
	2310 WTVZ-33 VA 440	W53AA(WCBS) "
	2315 WRLH-35 VA 450	2200 WLVT-33 VA 440
	2330 W35AB(WXTV)260	2210 WHRO-15 VA "
	W44AD(WTKR)380	2230 WYAH-27 VA 450
	2300 WTKK-66 VA 410	2240 WLVT-33 VA 440
	2310 WTVZ-33 VA 440	23 Tr 0005 WRLH-35 450
	2315 WRLH-35 VA 450	0200 WNYT-13 NY 185

<u>June 1984</u>	<u>June 1984</u>	<u>June 1984</u>
5 Tr 2300 WLVT-34 FL 1110	13 Tr 0005 WERE-28 PA 270	11 Tr 1500 WERE-28 270
(in & out to 0140)	0040 Unid-51; NBC, S.	WITF-33 325
6 Tr 0125-0135 <u>WFLX-29 FL</u>	0050 W53AA(WCBS)180	to WTHY-54 170
W. Palm Beach 1160 mi. 17 Tr 1300	2200 WLVT-33 VA 440	WLVT-39 PA 260
0120-0200 Unids on	2210 WHRO-15 VA "	WVIA-44 PA 270
chs. 2544, south. It pays	2230 WYAH-27 VA 450	WCPB-28 MD 340
to hang in there. At mid-	2240 WLVT-33 VA 440	WTKK-66 VA 410
night I was about to throw	23 Tr 0005 WRLH-35 450	23 Tr 0005 WRLH-35 450
the big switch with work	0200 WNYT-13 NY 185	0200 WNYT-13 NY 185
starting at 7 A.M. that	Albany	0205 WHER-12 NC 455
morning.	to WPHL-17 NY 170	24 Es 1800 WBBM-2 IL 880
10 Tr 2100 WHRO-15 VA 440	WPHL-17 NY 170	1830 KGAN-2 IA 1080
2115 WBOC-16 MD 340	2210 WHRO-15 VA "	KTVO-3 MO 1130
2200 WNHT-21 NH	2230 WYAH-27 VA 450	KMOK-4 MO 1050
WMEG-26 ME 130	2240 WLVT-33 VA 440	0205 WHER-12 NC 455
2230 WIDS-50 NH 100	23 Tr 0005 WRLH-35 450	1830 KGAN-2 IA 1080
2243 <u>W59AT NY</u>	0205 WHER-12 NC 455	KTVO-3 MO 1130
Plainview	1500 WNDS-50 NH 100	KMOK-4 MO 1050
11 Tr 0630 WBFM-45 MD 350	to WNJT-52 NJ 195	0205 WHER-12 NC 455
WPMF-43 PA 340	WEIN-53 CT 80	1830 KGAN-2 IA 1080
0635 WPHL-17 PA 260	It only took 10 years of	KTVO-3 MO 1130
0640 WTAF-29 PA "	WSNL-67 NY 140 DXing and here they came	KMOK-4 MO 1050
	1700 WNEP-16 PA 270	in one year. During the 3

but not very strong at times. Fading was present (in & out) during all openings due to distance and they came late at night or early in the morning. Equipment: Super Bandsaw UHF ant. at 30'; Super Vector hi-band & low-band at 20' & 25'; 50' RG-59 and HT Vaulter Plus III amp. Zenith 17" color TV. Total 290.

Eastern TV-DX
Robert Grant: KD8EN, 5775 Bishop, Detroit MI EDT
May 1984 June 1984
 24 Es 1015 KATC-3 LA 7 Es 2200 KSNW-3 KS
 1130 KYCU-5 WY 8 Es 2200 KENW-3 NM
 KFDX-3 TX 12 Es 1500 KETX-3 TX
 1200 KSNW-3 KS 21 Tr 0730 WTOV-9 OH
 1205 WDAF-4 MO* WPXI-11 PA
 Kansas City (super rare) (0 offset; loc-
 1300 KBME-3 ND al ad; new to
 KOTA-3 SD Pittsburgh U's air)
 1310 KIVV-5 SD t Es 1820 CBET-3 NS 2051 KXL-4 MT t
 1430 KTBS-3 LA CJCH-5 NS (ABC; 0 offset)
 25 Es 0830 KWGN-2 CO* CKLT-1-3 NB 2120 KNDX-2 ND*
 22 Es 2030 WEDU-3 FL Total now: 295
 25 Es 1952 KOTA-3 SD * = identified thru local
 7 Es Unid-3; Cuba or Mexico (now ABC) t = tentative

After getting off to a good start in May, early June seemed like a typical early March as far as Es is concerned. However, the last news item in the 6/25 KOTA Newsline seen by Es was a real treat. A report about the viewer confusion caused by a switch to ABC the day before. And a report on why KOTA (along with KHSD and KSGW) went ABC because the ratings were better at ABC. (That's what I really love about small-market stations, they're so honest. hi.) If this had been a Detroit station (or other major-market) switching network they would say it was "To serve the community better". Anyway, KIVV/KEW was seen with its new logo, the "N" in KEW being the NBC logo.

The ABC ch.4 0 offset logging puzzles me a bit. From what I know now, KXL would be most likely (KOMO and WOAY less so). However, the opening would seem to favor KPRV-4, Pierre SD at the time but that is listed as NBC. Have they changed? (Yes, they are now ABC and were when you saw that.-wd). Anyway, the unid had a tornado warning and I have sent a card to KXL. About the tornado warning, KXL's area had good wx at the time and KPRV had severe wx at that time.

John F. Combs: 2485 Ivan Ct., Orlando FL 32807 EDT

June 1984 June 1984 June 1984
 4 Tr WEAR-3 FL (AL) 406 5 Es 0027 KAMR-4 TX 1289 6 Tr 0815 WFSU-11 FL 235
 Pensacola Amarillo WTOP-11 GA 240
 0738 WMBB-13 FL 266 WOLO-25 SC 379 WSAV-3 GA "
 WPMI-15 AL 408 Columbia WLTX-19 SC 378 0817 WTOP-28 NC 514
 Mobile Columbia 0053 WJCL-22 GA 240 (All weak & un-
 WMAH-14 MS 526 WCCB-18 NC 463 stable; probably
 Meridian 0743 WMAH-19 MS 484 Charlotte tail end; knew I
 WCTV-6 FL t WPDE-15 SC 416 should have checked
 WJHG-7 FL 279 WTOP-28 NC 514 dx when I woke at
 0746 WFSU-11 FL 235 Raleigh 0615!
 0747 WTVY-4 (AL) FL WPCQ-36 NC 462 Es 1258 Noted; no time
 Dothan Charlotte Tr 2307 WSAV-3 GA 240
 0748 WTWG-40 FL 225 0056 WIS-10 SC 384 WTOP-11 GA "
 0751 WMAU-17 MS t 0101 WITN-7 NC 521 7 Tr 0956 WSAV-3 GA "
 0755 WKRG-5 AL 419 Washington 0959 WTOP-28 NC 514
 Mobile 0104 WLFL-22 NC 514 (In all by itself;
 WDHN-18 AL 303 getting to be a regular)
 0801 WKAB-32 AL 395 Raleigh-Durham (Full c.b. w. I.D.) 1206 WSCC-5 SC 304
 Montgomery 0126 WTOP-11 GA 240 WCIV-4 SC 303
 0851 WLTZ-38 GA 343 WBTW-13 SC t Unid-3
 0855 WALA-10 AL 417 Mobile 0137 WSAV-3 GA 240 16 Es 2000 Unid-3; ABC
 Es 1045 Noted; no time 0143 Unid-2; 3/4 c.b. 20 Es 1830 Unid-2; 0 to
 1830 " at work 0158 Unid-3; brief, WESH-2; seen at work
 2255 KTVY-4 OK 1063 see notes. 22 Es 0924 KSNW-3 KS 1131
 KSNW-3 KS 1131 0201 WKFT-40 NC 468 0929 KFDX-3 TX 1083
 Wichita Fayetteville 1028 KWBH-4 TX t
 KOET-3 OK 941 0215 Quit; exhausted! (ch. 9 I.D. heard)
 Enid 2303 WCIV-4 SC 303 25 Es 2030 Unid-2; 0 to WESH
 5 Es 0015 KFDX-3 TX 1083 6 Tr 0809 Unid-8; no idea. -2.
 Wichita Falls 0815 WJHG-7 FL 279
 0021 KAUZ-6 TX t WMBB-13 FL 266

August 1984

Eastern TV-DX

Combs; continued--- August 1984
 Two really great days of both Tr and Es, and then...well, conditions can't be up all the time. That tropo was certainly fun and I hope I got some good photos. The Unid-35 baffles me---the only 35's in that area/direction are PBS and wouldn't normally be on at that hour. The details have gone to the CCI column. I'd really like to I.D. that one as local WOFL-35 has just announced plans to go 24 hours!

I would like to purchase a used 5 foot dish (not a 7 footer) in good condition. If you have such an animal available, please write me! 73, John.

George Rogers: 320 Lafayette Rd., Chickamauga GA 30707 EDT

Here is my report for the Eastern TV-DX column. TV DX has been hot down here and it will get hotter in the rest of the summer months. Equipment: Zenith 12" portable model No. ET-120-Y and 1977 model Radio Shack VHF-UHF roof antenna.

May 1984 - 24th Es 1140-1735 KXJB-4, CKX-5, CBWT-2-4, KDLH-3, KWGN-2, CKPR-2, CKRN-4, CHNB-4, CICI-5, CKCY-2, KNOP-2, KSNC-2; 2000 CKND-2. 25th Es 0940-1034 KNDX-2, KTW0-2; 1534 KMID-2. 26th Es 0855 XEFB-2; 1925-2005 CKCW-2, CKPR-2-2. 27th Tr 0930-0950 WBMG-42, WATL-36, WTT0-21; Es 2000-2008 KMID-2, XEFB-2. 29th Es 1457 ICR-2 Cuba. 31st Tr 0815-0830 WTBS-17, WTVK-26; Es 1201-1730 KWSE-4, KNDX-2, KBME-3, KGF-2, KFYR-5, KTW0-2, KWGN-2, KUSD-2, KXJB-4, CKNB-2, KSAF-2, XEFB-2, KOAA-5, KCNC-4, KNOP-2, KDUH-4; 2100-2347 CBFT-2, WCAK-3, Burlington VT, CKPR-2, CHRO-5, CHNB-4, CFCL-6, KBJR-6, CJIC-5, CBWT-6, CKX-5, WCCO-4, CBWT-2-4, CBWCT-5, KDLH-3, CBWFT-7-2.

June 1984 - 1st Es 1105-1205 CKCO-2-2, CFCL-2-2; 2nd 1205-1210 WGBH-2, WBZ-4; 1335 KSAF-2; 3rd Es 1130 KPRC-2; 1735 KMID-2; 4th Tr 0930 WKCH-43; 0950 WGRB-3-4; 1020 WCAY-30; Es 1025-1120 XHAO-4, XHFM-2, KMID-2, XEWD-2; 1550 ICR-2; 1715-2309 XEW-2, XHGL-4, XHAJ-5, XHD-4, XHTI-6, XHTV-4, XHGC-5, XHFM-2, KPRC-2, KDBC-4, XEFB-2, XEJ-5, KGBT-4, KRGV-5, KOAA-5, XHRI-2, KMOL-4, KDFW-4. 5th Es 0820-0935 KSNC-2, KTVS-3, XEFM-2; Tr 0947-0952 WGX-24, WMGT-41, WBIR-10; Es 1020-1034 XHFM-2, KMID-2; Tr 1040 WVEU-69; 1042 WPA-30(ex-WETV); 1045 WHMA-40; 1100 WATL-36; Es 1230-1305 XEFB-2, XHD-4, XHGC-5; 1600-2120 XEFM-2, KSAF-2, XHTV-4, XEZ-3, XEW-2, XEWO-2, KDBC-4, XEJ-5, KMID-2, XHGC-5, XHFM-2. 7th Tr 0810-0915 WLEX-18, WOUL-15, WGRB-34, WWSB-27, WTVQ-36, WKYT-27; Es 1030-1052 KMOL-4, KENS-5, KMID-2; 1312-1412 KWGN-2, KNOP-2, KOTA-3; 1900-2243 KNDX-2, KFYR-5, KGF-2, KSRE-6, KPRY-4, KUSD-2, KDLT-5, KIVV-5, KTIV-4, WDAY-6, KJJB-4. 8th Es 0815-0835 WXIX-19, WLKY-32, WLEX-18, WKYT-27, WIRE-41; Es 0920-1230 KUSD-2, KTCA-2, KTW0-2, KNDX-2, KFYR-5, KDLT-5, KPRY-4, KMRE-3, KGF-2, KTIV-4, KPLD-6, KIVV-5, KQTV-2, KOTA-3, KDUH-4, KHAS-5, KNOP-2, KSNB-4, KYCU-5 KWGN-2; 1800-2242 KSAF-2, KNME-5, KGAN-2, XHFM-2, KMID-2, KTXI-5, KCNC-4, KRAM-6, KOAA-5, XHRI-2. 9th Es 1126 XHFM-2; 1956-2040 KNDX-2, KWGN-2. 10th Es 2110-2151 TB-2 Cuba, XEFB-2; 11th 2059-2245 KWGN-2, KSAF-2, KTW0-2; 12th Es 1240-1458 KGBT-4, KPRC-2, KNOP-2, KMOL-4, KAMR-4, KINE-3, KPRY-4, KSAF-2, KSNB-4, KUSD-2, KTXI-5, KWGN-2, KTIV-4, KOAA-5, KGF-2, KSNC-2, KXJB-4 1604-1635 KTW0-2, KSNC-2, KJJB-4; 1828 WLZB-2; 1928 WCB-2; 13th Tr 1010-1020 WWSB-27, WTT0-21, WBMG-42, WHMA-40; Es 1022-1118 KMID-2, KAMR-4; 1912-2033 KSAF-2, KWGN-2, TR-2. 14th Tr 1845-1925 WHIQ-25, WKAB-32, WFYZ-39; Es 2201-2205 KSAF-2, KMID-2. 16th Es 1156-1440 KMID-2, KJRH-2, KENW-3, KACB-3; 2045-2112 XHFM-2, KTXI-5, KDBC-4, XEJ-5. 17th Es 1100 XEW-2; 1605-1608 KPRC-2 KMID-2. 18th Es 0942-1300 XHFM-2, KGBT-4, KRGV-5, KENS-5, XHAO-4, KMOL-4, XHFM-2. 19th Es 1500 CKCY-2. 20th Es 1400-1405 KOB-4, KSAF-2; 1725-1950 ICR-2, TR-5, XHGL-4, TR-2, XHTV-4, XEW-2. 21st Es 1032-1131 WCB-2, CKCO-2-2, CFCL-3-2, CKPR-2, CKCY-2; 1730-2247 WLZB-2, CKVR-3, WGBH-2, CHSJ-4, WBZ-4, CBFT-2, WCWB-5, CHAU-5, CKGN-2-2, CELT-5, CKGN-6 Paris ON, CHRO-5, WGRZ-2, KUSD-2, KNOP-2; 22nd 0938-1130 Es XEFB-2, WBRZ-2, KGBT-4, WGN-2, XHFM-2; 1850 ICR-2; 23rd Es 1123-1315 XHFM-2, KDBC-4, KMID-2; 24th Es 1800-1850 CBFT-2, CKCW-2, CHSJ-4, CHAU-5-2 Perce PQ.

There were some good Es openings into Mexico the first week in June as well as some good Tropo to Kentucky and I did get a few good Es openings to the Midwest area during the month. I'm still hoping for a high band Es in July. Remember four years ago when on July 17th there was good hi band skip on that day in 1980. (Next time you see some hi band Es, take a picture of it.-wd). I will be going to Woodridge IL and Radcliff KY from July 5 thru the 9 for vacation and to see how good TV-DX is up there. Here's hoping the second half of the Es season is as good as the first. Thank you.

Top Es stations received: No. 1 KMID-2-22times down to KNDX, KGF-2, XHFM, KGBT, all seen 10 times. Varies in this month: KJJB, KQTV, KMOL, KGAN, KIMT, KPRY, KDLT-5, KDBC-4, KSNB-4.

Fred Nordquist
7945 Boxford Road
Cley, NY 13041
Deadline: the 5th

FM STATISTICS AUGUST 1984

Rank	Name	Location	Total	88-92	ES	VS	PL	USA	CA	MX	FE	TL	YE	AS	CF
SORT BY TOTAL															
1	DANNY BUNTING	OK STILLWATER	1554	235	898	3	0	48+	5	9	2	65	74	9/2/83	
2	BRUCE ELVING	NY DULUTH	1491	213	1231	8	7	44+	3	1	0	49	48	9/7/83	
3	JOHN EBELING	WA BLOOMINGTON	1428	226	805	39	73	47+	4	5	2	57	52	1/3/84	
4	RALPH STROBEL	IN MUNCIE	1328	323	220	37	4	38+	3	1	1	43	72	3/28/84	
5	FRED NORDQUIST	NY CLAY	1289	195	584	28	57	39+	5	2	2	47	69	7/4/84	
6	MIKE BUGAJ	CT ENFIELD	1197	150	629	7	21	37+	3	0	1	42	74	12/5/83	
7	JIM PIZZI	NY LOVINGTON	1124	152	909	16	0	38	5	14	4	61	81	5/22/84	
8	FRED MCDORMACK	ND DES LACS	1092	140	805	25	87	44+	6	4	2	55	65	6/28/84	
9	TIM MCVEY	TN BOLIVAR	1075	151	392	1	1	42	5	11	1	59	77	7/1/83	
10	JOSEPH FELA	NJ S. PLAINFIELD	1062	218	589	2	9	37+	5	2	3	46	68	6/22/84	
11	DAVID NIEMAN	NY AKRON	961	237	231	32	19	41+	7	2	2	51	53	3/1/84	
12	FRED MCDORMACK	ND FARGO	868	126	555	3	48	47+	5	2	2	54	74	6/28/84	
13	HANK HOLBROOK	MD CHEV CHASE	814	202	215	15	0	35+	5	2	3	44	59	4/26/84	
14	SRUL CHERNOS	ON BURNT RIVER	768	114	414	46	72	37+	7	2	2	45	77	4/16/83	
15	JOHN JEFFERSON	CA PLEASANTON	743	153	411	122	0	23	4	4	2	31	57	10/9/83	
16	DANIEL DETTING	PA BRODMAN	538	144	216	4	3	32+	5	2	2	36	77	1/2/83	
17	JOHN EBELING	IL PROSIT	609	111	313	2	5	41+	7	2	2	43	75	1/3/84	
18	JEFF KADET	IL MACOMB	609	114	55	4	0	32+	3	0	2	36	83	9/26/83	
19	JOSEPH SMITH	NY JOHNSON CITY	605	80	165	0	0	34+	2	0	1	38	71	4/28/84	
20	KEN SIMON	FL LAKE WORTH	528	145	429	2	2	34+	2	2	2	6	47	66	9/1/83
21	ALAN MICHALEK	MA SPRINGFIELD	451	51	244	2	0	36	4	0	2	42	53	7/25/83	
22	MIKE HOGAN	IL BURNHAM	389	68	32	0	0	24	1	2	0	25	76	7/31/83	
23	BOB SCHWEITZER	NJ E. BRUNSWICK	234	75	7	0	0	11+	0	2	2	12	77	9/3/83	
24	PAUL MOUNT	NJ TEANECK	216	28	28	0	0	21+	1	0	0	23	79	4/2/84	
25	ROBERT ROSS	DN LONDON	204	43	19	0	0	14	1	2	0	15	76	2/1/83	
26	RONALD PURDUE	NY BYRON	156	2	95	0	0	28+	0	2	2	23	81	6/5/83	
27	FRANK WHEELER	PA ERIE	148	17	3	0	0	7	1	2	0	8	64	10/12/83	
28	WILLIAM HEPBURN	ON NIAGARA FALLS	144	51	35	0	0	18+	1	0	0	20	70	4/2/84	
29	BOB SCHWEITZER	NJ OLD BRIDGE	121	32	2	0	0	9+	0	0	0	10	82	9/3/83	

=VERIFIED

COLUMN DEFINITIONS are as follows: Total=Total number of FM stations logged. (Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes.) 88-92=All stations logged from 88.0 to 91.99 MHz. Es=Total number of stations logged via E-skips. Vs=Total by retrace scatter. Pl=Total via Aurora USA=Total number of states and the 1st = Washington, DC. Ca=Number of Canadian provinces logged. Mx=Number of Mexican states logged. Fd=Number of foreign countries, but not Canada or Mexico. Pu=Total number of political units=sum of USA Ca Mx and Fd. Vb=The year you began DXing

ALL-TIME FM DISTANCE RECORDS

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
88.10		88.70		89.10	
Es WCRP PR Guayama	2288 DBu OK	Es WERN WI Madison	1752 JJe2 CA	Es CKRL PQ Quebec	1453 BE13 NE
Tr WVE IN Elkhart	512 Fm2 NY	Tr WSIE IL Edwardsville	561 BE12 MN	Tr KMKR KS Wichita	583 BE12 MN
MS WTCI TX Lubbock	1146 FM2 OH	MS WHA WI Madison	1074 Gha TX	MS KFRE WA Richland	610 JJe2 CA
Au WUIC TN Chattanooga	661 DN1 NY	Au WHA WI Madison	684 Fm2 ND	Au KMKR KS Wichita	651 RBr MI
88.38		88.88		89.20	
Es KSUC TX Keene	1436 JJe2 CA	Es T69T GU Guatemala	1158 Gha TX	Es XEJT TAM Tampico	974 Gha2 OK
Tr WMC WI Colfax	512 Fm2 ND	Es MEWL KY Richmond	2020 Jp1 NM	Es WCRP PR Quetzalt	1183 Gha TX
MS WRB LA New Orleans	1109 DN1 NY	Tr WMC TX Chattanooga	846 BE13 NE	Es WCRP PR Quetzalt	1183 Gha TX
Au WMC NY Syracuse	678 ABo IL	MS WMC TX Chattanooga	872 Gha TX	Es WCRP PR Quetzalt	1183 Gha TX
88.40		88.88		89.40	
Es T69T GU Guatemala	1150 Gha TX	Es YSR1 ES San Salvador	1243 Pdy TX	Es T69T GU Guatemala	1183 Gha TX
Es KPLW WA Tacoma	1519 DBu OK	Es YSR1 ES San Salvador	1243 Pdy TX	Es T69T GU Guatemala	1183 Gha TX
Tr WMC GA Atlanta	891 Gha TX	Es YSR1 ES San Salvador	1243 Pdy TX	Es T69T GU Guatemala	1183 Gha TX
MS WFD NC Winston-Salem	1154 Gha TX	Es YSR1 ES San Salvador	1243 Pdy TX	Es T69T GU Guatemala	1183 Gha TX
Au WMC DC Washington	932 JEB MN	Es YSR1 ES San Salvador	1243 Pdy TX	Es T69T GU Guatemala	1183 Gha TX

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
89.50		90.00		90.50	
Es KENW NM Portales	1473 DN1 NY	Es XEJT T69T Cd Victoria	873 G-a2 DK	Es KENW FL Naples	1657 FM2 ND
Tr KENW NM Portales	966 Jp1 TN	Tr KENW FL Naples	1657 FM2 ND	Tr KENW FL Lafayette	875 RBr MI
MS WNDL IL DeKalb	1025 G-a2 TX	Tr KENW FL Naples	1657 FM2 ND	MS KROM LA Shreveport	1046 Psa CN
Au WNDL CT Bridgeport	798 ABC IL	Tr KENW FL Naples	1657 FM2 ND	Au WNDL VA Richmond	575 RBr MI
89.60		90.00		90.60	
Es T69T GU Guatemala	1150 G-a TX	Es T69T GU Guatemala	1150 G-a TX	Es KITTS MG Springfield	1569 JJe2 CA
Es XHARW JAL Guadalajara	1586 ABC IL	Es XHARW JAL Guadalajara	1586 ABC IL	Tr KITTS MD Springfield	663 BE12 MA
Tr WMC FL Miami	1599 Gha TX	Tr WMC FL Miami	1599 Gha TX	MS WKX MS Jackson	1073 Fm2 NY
MS WDC TX Denison	1131 Lvc VA	MS WDC TX Denison	1131 Lvc VA	Au WPTF NC Raleigh	512 Fm2 MI
Au WDC FL Orlando	914 ABC IL	Au WDC FL Orlando	914 ABC IL	90.70	
90.70		90.80		90.80	
Es WJCT FL Jacksonville	1629 Fm2 ND	Es WJCT FL Jacksonville	1629 Fm2 ND	Es WJCT FL Miami Beach	1948 Fm2 ND
Tr WJCT FL Jacksonville	1220 Gha TX	Tr WJCT FL Jacksonville	1220 Gha TX	Tr WJCT FL Miami Beach	1163 Gha TX
MS WHSA WI Brule	905 Jvo VA	MS WHSA WI Brule	905 Jvo VA	MS WJCH GA Decatur	1342 Fm2 NC
Au WHSA WI Brule	496 Fm2 MI	Au WHSA WI Brule	496 Fm2 MI	Au WJMG IA Des Moines	600 Fm2 NC
90.80		90.90		90.90	
Es YSJ ES San Salvador	1248 Gha TX	Es YSJ ES San Salvador	1248 Gha TX	Es ZEP BM Hamilton	1374 RBr MI
90.90		91.00		91.00	
Es K5JR MN Collegeville	1519 JJe CA	Es K5JR MN Collegeville	1519 JJe CA	Es KRCG CO Colorado Springs	1486 Vo VA
Tr K5JR TX Houston	848 JCo FL	Tr K5JR TX Houston	848 JCo FL	Tr WJAX FL Jacksonville	1020 Gha TX
MS WMBI IL Chicago	1058 Gha TX	MS WMBI IL Chicago	1058 Gha TX	MS WJST WI Marinette	1146 Gha TX
Au K5JR NE O'Neill	766 SCh DK	Au K5JR NE O'Neill	766 SCh DK	Au K5TS KS Wichita	651 RBr MI
91.00		91.10		91.10	
Es KXED TX Corpus Christi	1598 Fm2 NY	Es KXED TX Corpus Christi	1598 Fm2 NY	Es WPPA VA Petersburg	1439 Fm2 ND
Tr KXED TX Corpus Christi	82.2 Jvc VA	Tr KXED TX Corpus Christi	82.2 Jvc VA	Tr WTLN FL Apopka	1038 Gha TX
MS WDXL WI Wausau	1283 Gha TX	MS WDXL WI Wausau	1283 Gha TX	Au CKDS NY Hamilton	378 SRe CT
Au WDXL WI Wausau	704 Fm2 ND	Au WDXL WI Wausau	704 Fm2 ND	91.10	
91.10		91.20		91.20	
Es KJED NM Duluth	1644 JJe CA	Es KJED NM Duluth	1644 JJe CA	Es WDXL TX San Antonio	1251 Gha JH
Tr KJED GA Atlanta	891 Gha TX	Tr KJED GA Atlanta	891 Gha TX	Tr WDXL TX San Antonio	841 ABo IL
MS KJCV MD Maryland	985 Fm2 NY	MS KJCV MD Maryland	985 Fm2 NY	91.20	
Au CB44 NS Halifax	1026 FM2 OH	Au CB44 NS Halifax	1026 FM2 OH	Es XHDX TX Tampico	503 Gha TX
91.20		91.30		91.30	
Es KJED NM Sour Tree	1950 Jp1 NM	Es KJED NM Sour Tree	1950 Jp1 NM	Es WDXL TX Tampico	503 Gha TX
Tr KJED NM Sour Tree	902 DA NY	Tr KJED NM Sour Tree	902 DA NY	Es WDXL TX Tampico	503 Gha TX
MS WHAD IL Delafield	903 WBI FL	MS WHAD IL Delafield	903 WBI FL	Es WDXL TX Tampico	503 Gha TX
Au KJMU MO St. Louis	950 JJe2 NJ	Au KJMU MO St. Louis	950 JJe2 NJ	Es WDXL TX Tampico	503 Gha TX
91.30		91.40		91.40	
Es KJED NY Warrensburg	1534 JJe CA	Es KJED NY Warrensburg	1534 JJe CA	Es WDXL TX Tampico	503 Gha TX
Tr KUNI IA Cedar Falls	828 Fm2 NY	Tr KUNI IA Cedar Falls	828 Fm2 NY	Es WDXL TX Tampico	503 Gha TX
MS CBX AT Edmonton	1170 JJe2 CA	MS CBX AT Edmonton	1170 JJe2 CA	Es WDXL TX Tampico	503 Gha TX
Au KUNI IA Cedar Falls	589 Fm2 ND	Au KUNI IA Cedar Falls	589 Fm2 ND	91.40	
91.40		91.50		91.50	
Es JBC-2 JAM Coopers Hill	1950 Jp1 NM	Es JBC-2 JAM Coopers Hill	1950 Jp1 NM	Es WDXL TX Tampico	503 Gha TX
Tr WFMK FL Jacksonville	1820 Gha TX	Tr WFMK FL Jacksonville	1820 Gha TX	Es WDXL TX Tampico	503 Gha TX
MS K5JN MN St. Paul	1114 Gha TX	MS K5JN MN St. Paul	1114 Gha TX	Es WDXL TX Tampico	503 Gha TX
Au WVMF IN Vincennes	735 Fm2 ND	Au WVMF IN Vincennes	735 Fm2 ND	91.50	
91.50		91.60		91.60	
Es WIPR PR San Juan	1806 C40 OH	Es WIPR PR San Juan	1806 C40 OH	Es WDXL TX Tampico	503 Gha TX
Tr WTHS FL Miami	1159 Gha TX	Tr WTHS FL Miami	1159 Gha TX	Es WDXL TX Tampico	503 Gha TX
MS CKRL AT Drumheller	1055 JJe2 CA	MS CKRL AT Drumheller	1055 JJe2 CA	Es WDXL TX Tampico	503 Gha TX
Au WCKM NY Syracuse	536 RBr MI	Au WCKM NY Syracuse	536 RBr MI	91.60	
91.60		91.70		91.70	
Es KJED NY Syracuse	1537 JJe2 CA	Es KJED NY Syracuse	1537 JJe2 CA	Es WDXL TX Tampico	503 Gha TX
Tr WJBL FL Miami Beach	1163 Gha TX	Tr WJBL FL Miami Beach	1163 Gha TX	Es WDXL TX Tampico	503 Gha TX
MS WJBL FL Miami Beach	1305 SCh DN	MS WJBL FL Miami Beach	1305 SCh DN	91.70	
Tr WJBL SD Rapid City	838 ABC IL	Tr WJBL SD Rapid City	838 ABC IL	MS WJBL FL Miami Beach	1305 SCh DN
91.70		91.80		91.80	
Es KJED NY Troy	512 Fm2 MI	Es KJED NY Troy	512 Fm2 MI	MS WJBL FL Miami Beach	1305 SCh DN
91.80		91.90		91.90	
Es KJED NY Troy	1302 JJe2 MN	Es KJED NY Troy	1302 JJe2 MN	MS WJBL FL Miami Beach	1305 SCh DN
Tr KJED NY Worthington	1457 Jp1 CA	Tr KJED NY Worthington	1457 Jp1 CA	MS WJBL FL Miami Beach	1305 SCh DN
MS KJED NY Worthington	808 RBr MI	MS KJED NY Worthington	808 RBr MI	MS WJBL FL Miami Beach	1305 SCh DN
Au KJED NY Worthington	712 SCh DN	Au KJED NY Worthington	712 SCh DN	91.90	
91.90		92.00		92.00	
Es WJSL IL Carbondale	1748 Jp1 NM	Es WJSL IL Carbondale	1748 Jp1 NM	Es WJSL IL Carbondale	1748 Jp1 NM
Tr WJSL IL Carbondale	789 Gha TX	Tr WJSL IL Carbondale	789 Gha TX	Tr WJSL IL Carbondale	789 Gha TX
MS WJSL WI Wausau	1012 RBr MI	MS WJSL WI Wausau	1012 RBr MI	MS WJSL IL Carbondale	1748 Jp1 NM
Au WJSL IL Carbondale	741 FM2 ND	Au WJSL IL Carbondale	741 FM2 ND	92.00	

FM STATISTICS AUG. 1ST 1984 ALL-TIME FM DISTANCE RECORDS

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
97.18 Es KDNZ MN Crookston	1451 JJe2 CA	99.78 Es WQDF AL Dothan	1454 Fm2 ND	102.58 Es WTSR FL St Petersburg	1414 BE12 MN
Tr WZBZ LA New Orleans	863 RBr WI	Tr WMC TN Memphis	958 Fm2 NY	Tr WBNY NY Buffalo	112. Rm2 LF
MS KHEW AR Camden	1075 SCH DN	MS WMNI OH Columbus	1088 Fm2 ND	MS KZIC MN Willmar	881 SCH CN
Au WCON WI Sparta	591 Fm2 ND	Au WMC TN Memphis	591 Fm2 WI	Au WBNY NY Buffalo	738 JEB WI
97.38 Es WIOZ FL Miami	1596 BE12 MN	Es ATSM TX El Paso	1678 RSe NY	Es WBNY NC Wilmington	1467 JF1 NY
Tr KEEZ TX San Antonio	1103 RBr WI	Tr KROB TX Robstown	175 RBr WI	Tr WREC TN Memphis	812 BE12 MN
MS KBUF KS Kansas City	1248 SCH DN	MS KTSM NM Clovis	1059 JJe2 CA	MS KCYS WA Richland	1018 Gm2 CA
Au KOMA IA Des Moines	782 SCH CA	Au KFAB NE Omaha	554 Fm2 ND	Au KDRB WA Richland	858 Fm2 ND
97.58 Es KINT TX El Paso	1570 RSe NY	Es KATD MT Plentywood	1428 Fm2 NY	Es WCCO MN Minneapolis	1571 JJe2 CA
Tr WPCV FL Winterhaven	1022 PDy TX	Tr WMNE GA Forsyth	595 Fm2 DN	Tr KQKE TX Houston	1104 Cho OH
MS KINT TX El Paso	1168 ABo IL	MS CBXK AT Lethbridge	938 JJe2 CA	MS KMBC TX Dallas	1274 SCH DN
Au WNCQ NY Watertown	783 ABo IL	Au WIVE VA Ashland	564 RBr WI	Au WBCS WI Milwaukee	473 SCH DN
97.78 Es CRUF BC Vancouver	1526 JPi NM	Es WQUP GA Tifton	1521 Fm2 ND	Es KNDY KS Marysville	1368 JJe2 CA
Tr XHGL YUC Merida	733 WBr FL	Tr WMNS PA Meadville	651 BE12 MN	Tr KCTO LA Columbus	556 ABo IL
MS KQDF BR Vidalia	829 Fm2 NY	MS KBXK TX Dallas	1098 Fm2 ND	Tr KJAM SD Madison	368 Fm2 ND
Au CHDM PQ Montreal	686 RSe NY	Au WZEN IL Alton	712 SCH CN	103.38 Es KOUL TX Burton	1405 SCH DN
Es KETIA JAL Guadalajara	2055 RSe NY	Es WMVS NJ Newark	1513 Fm2 ND	Tr KEEE TX Nacogdoches	982 Cho CN
Tr WJNO FL Palm Beach	1152 Gm2 TX	Tr WEAJ IL Jacksonville	811 Fm2 ND	MS KNTD TX Wichita Falls	1346 JJe2 CA
MS WNCI OH Columbus	1088 Fm2 ND	MS WKEE WV Huntington	856 Gm2 DK	Au WVEE GA Atlanta	548 Fm2 WI
Au WSIX TN Nashville	726 SCH CN	Au WAKI IN Kokomo	692 Fm2 ND	103.70 Es KYNS MN Mankato	1523 JJe2 CA
98.18 Es WTOP OH Canton	2058 Fd4 DR	Es WDAE FL Tampa	1743 Fm2 ND	Tr WSHC FL Ft Lauderdale	1156 Gm2 TX
Tr KSLQ MO St Louis	873 Fm2 ND	Tr KORD TX Abilene	799 JAy TN	MS WMR FL Ft Lauderdale	1268 Gm2 DK
MS WLEX KY Lexington	1108 Fm2 ND	MS WMUR FL Ft Lauderdale	1268 Gm2 DK	Au KQRI CO Denver	636 JEB MN
Au KUDL MO Kansas City	549 Fm2 ND	Es WGBI NE Omaha	554 Fm2 ND	103.72 Es WEIS VA Richmond	1494 JPi NY
Es CFCY ON Kingston	1546 JPi NM	Es KSRT CA Tracy	1428 Gm2 TX	Tr KXWY AR Little Rock	1176 MBu CT
Tr CBW MB Winnipeg	842 ABo IL	Tr WOSI AL Union Springs	724 ND1 ND	MS KVIL TX Dallas	1274 SCH DN
MS KARB UP Price	613 JJe2 CA	Al WQAD MO Carrollton	406 Fm2 ND	Au KIKI IA Davenport	642 SCH DN
Au CKLC ON Kingston	684 ABo IL	Es CFMI BC New Westminst	1827 RBr MI	103.98 Es KTRP NE Crete	1351 JJe2 CA
Es KQAC TX Port Arthur	1650 RWo2 AT	Tr KQOL TX Houston	986 RBr WI	Tr KBYY OH Westerville	817 DBu DK
Tr KLAZ AR Little Rock	1176 MBu CT	MS WNOE LA New Orleans	1193 SCH DA	104.10 Es KRBZ TX Houston	1506 JPi1 CA
MS KDUZ WI Green Bay	1148 JPi NM	Al WMZU MO Carrollton	843 SCH DA	Tr KRBZ TX Houston	986 RBr WI
Au WSGB GA Atlanta	588 RSe TX	Es KFMI BC New Westminst	1827 RBr MI	MS WLGS GA LaGrange	1021 BE12 MN
98.68 Es TBHR GU Guatemala	1218 RSe TX	Tr KQOL TX Houston	986 RBr WI	Au WIKY IN Evansville	559 JEB WI
98.76 Es KTXN TX Victoria	1538 Fm2 NY	Es WVHR VA Hampton	1492 Fm2 ND	104.30 Es WKTC NC Tarboro	1485 JPi NY
Tr WHOP KY Hopkinsville	725 BE12 MN	Tr KFDI KS Wichita	683 BE12 MN	Tr WZYP AL Athens	711 RSe TX
MS WYDE NC Greensboro	1085 Gm2 DK	MS KWDB NM Raton	716 SCH DN	MS WOHC MI Detroit	983 Fm2 ND
Au WMBF MI Detroit	536 MBu CT	Es KJES FL St Petersburg	1533 Fm2 ND	Au WOHC MI Detroit	745 Fm2 ND
Es WFMN AL Montgomery	1357 Fm2 ND	Tr WLYF FL Miami	1159 Gm2 TX	104.50 Es WEAT FL W Palm Beach	1895 Fm2 ND
Tr WBGW FL Tallahassee	856 PDy TX	MS WIBA WI Madison	758 SWe PA	Tr WNST OH Wooster	654 BE1 MN
MS KRDY CO Pueblo	1038 RSe IN	Al WMBE GA Marietta	573 RBr WI	MS KEXL TX San Antonio	1183 RBr WI
Au WSPA SC Spartanburg	552 RBr WI	Es KTLQ OK Tahlequah	1435 JPi1 CA	Au WNST OH Wooster	639 JEB WI
99.10 Es KEEZ MN Mankato	1523 JJe2 CA	Tr WTRG SC Myrtle Beach	618 SRe CT	104.70 Es WRBQ FL Tampa	2298 JPi1 CA
Tr KDDA TX Houston	1104 Cho OH	Al WILS MI Lansing	291 Fm2 ND	Tr WRBQ FL Tampa	979 PDy TX
MS WMBK FL Jacksonville	1187 JEs MN	Es KCBW MA Falmouth	1576 Fm2 ND	MS KIOV SD Sioux Falls	898 SCH DN
Au WKNW ID Idaho Falls	688 Fm2 ND	Tr WML LA New Orleans	905 Cho OH	Al WIOV SD Sioux Falls	524 ABo IL
99.30 Es CFDX BC Vancouver	1526 JPi NM	MS KEMY MN St Paul	1020 RSe TX	104.98 Es KSMI LA Donaldsville	1375 Fm2 ND
Tr WZEP FL Cocoa	1087 Gm2 TX	Al WFOH TX Ft Worth	692 ABo IL	Tr WNEH OH Circleville	677 BE12 MN
MS WMEC AL Monroeville	975 JEs MN	Es KLYX TX Houston	1506 JPi1 CA	Es KSFZ MO St Joseph	1465 JJe2 CA
Au WMEW TN Crossville	298 ABo IL	Tr KLYX TX Houston	986 RBr WI	Tr WMSD FL Orlando	1046 Gm2 TX
99.50 Es WDMG GA Douglas	2260 JJe2 CA	MS KEEM NY St Paul	1020 RSe TX	MS WYOR FL Coral Gables	1147 RSe TX
Tr WQYK FL St Petersburg	982 Gm2 TX	Al WFOH TX Ft Worth	692 ABo IL	Au WSMW OH Salem	685 JEB MN
MS WQAY DC Washington	1382 Fm2 ND	Es WPTM NC Roanoke Rapid	1479 JPi NM	Au WMSR VT St Albans	666 RBr WI
Au WMDQ KY Henderson	567 JEB MN	Tr WLRG KY Louisville	671 BE12 MN		

FM STATISTICS AUG. 1ST 1984 ALL-TIME FM DISTANCE RECORDS (CONT)

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
105.38 Es WDNB GA Macon	1418 RBr WI	Es WTSR FL St Petersburg	1414 BE12 MN	106.38 Es KTCW TX Belton	1357 JPi1 CA
Tr WWSL AR Shreveport	837 RBr WI	Tr WBNY NY Buffalo	112. Rm2 LF	Tr WWDY IL Crawfordville	534 BE12 MN
MS KXKX TX Dallas	1098 Fm2 ND	MS KZIC MN Willmar	881 SCH CN	MS KXAN TX Hereford	1183 JJe2 CA
Au WQAS PA Philadelphia	611 RBr WI	Al WBNY NY Buffalo	738 JEB WI	Al KWDN WY Cheyenne	349 RBr WI
105.58 Es WWRK VA Tappahannock	1420 Fm2 ND	Es WTSR FL St Petersburg	1414 BE12 MN	106.58 Es WZLZ PA Boyertown	1506 Gm2 TX
Tr WREC TN Memphis	812 BE12 MN	Tr WBNY NY Buffalo	738 JEB WI	Tr WWDW SC St George	959 DBu DK
MS KXWS NY Clovis	1059 JJe2 CA	MS KZIC MN Willmar	881 SCH CN	MS KNDK TX Ft Worth	1294 SCH DN
Au KDRB WA Richland	858 Fm2 ND	Al WBNY NY Buffalo	738 JEB WI	Al KPLP MN Lakewood	699 JEB MN
106.70 Es KHCZ TX Houston	1506 JPi1 CA	Es WWRV NY New York	1448 Fm2 ND	107.58 Es WBNQ NY Albany	1656 PDy TX
Tr WOOD MI Grand Rapids	922 Rm2 LA	Tr WMLN IL Washington	976 Fm2 ND	Tr WNCY NC Greenville	839 Rm2 LA
MS KXCB TX Houston	1085 JEB MN	MS WSTR NC Salisbury	969 Gm2 DK	MS KWIC TX Beaumont	1192 PSA DK
Au KHCZ CO Denver	1065 JEB MN	Al KWDI WI Marshfield	591 Fm2 ND	Au KXSB MO St Louis	661 Fm2 ND
108.70 Es WWRV NY New York	1448 Fm2 ND	Es WWRV NY New York	1448 Fm2 ND	107.98 Es WBNR NY Albany	1656 PDy TX
Tr WMLN IL Washington	976 Fm2 ND	Tr WMLN IL Washington	976 Fm2 ND	Tr WNCY NC Greenville	839 Rm2 LA
MS KXWW MI Detroit	891 Gm2 DK	MS WSTR NC Salisbury	969 Gm2 DK	MS KWIC TX Beaumont	1192 PSA DK
Au KHCZ CO Denver	1065 JEB MN	Al KWDI WI Marshfield	591 Fm2 ND	Au KXSB MO St Louis	661 Fm2 ND
108.98 Es KXGJ CHI Juarez	1825 Fm2 JF	Es KXGJ CHI Juarez	1825 Fm2 JF	108.98 Es KXGJ MA Medford	1455 DBu DK
Tr WAXY FL Ft Lauderdale	1156 Gm2 TX	Tr KXGJ CHI Juarez	1825 Fm2 JF	Tr WIRK FL Ft Lauderdale	1156 Gm2 TX
MS WLAC TN Nashville	1123 Fm2 ND	Tr KXGJ CHI Juarez	1825 Fm2 JF	MS WBT NC Charlotte	954 Gm2 DK
Au KWDI CO Denver	696 JEB MN	Al KWDI CO Denver	696 JEB MN	Au WAUR IL Aurora	824 MBu CT

STATES STATS

USA	STATE # -DXER # -DXER			
AL 54-TMC 46-JEB	GA 52-DBu 52-BE12	MD 42-Dce 41-JFe	VA 32-JE2 31-Ym	SD 26-Fm2 28-Fm2
AK 11-JJe3 0-None	HI 0-None 0-None	MI 04-RS2 67-KBu	NY 152-Fm2 132-JS	SD 32-Py 82-YC
AZ 29-Fm2 26-DBu	ID 22-DBu 13-RSa	MI 139-Fm2 114-RSt	NC 66-BE12 63-DBs	TX 211-DBs 143-Fm2
AR 65-DD2 61-VE	IL 149-RSt 103-BE12	MI 128-JE2 103-BE12	NC 22-Fm2 24-Fx2	UT 19-DBs 17-Rs2
CA 245-JJe2 102-Fm2	IN 146-RSt 112-DB	MS 64-Fm2 36-Fm2	OH 181-RSt 177-Fm2	VT 11-RS2 11-Ym
CO 53-JJe2 44-Fm2	IA 96-JEs 69-BE12	MI 182-Fm2 15-JJe2	OK 82-DBu 48-Fm2	VA 45-DBu 41-JEs
CT 53-JJe2 44-Fm2	KS 66-DBu 44-Fm2	NE 48-JJe2 24-JEs	OK 26-JE2 38-Fm2	WA 33-Fm2 29-RSt
DE 43-MBu 35-JFe	KY 67-RSt 33-DB	NV 15-Fm2 14-DBu	PA 128-DB1 101-JFe	WV 123-BE12 116-JEs
FL 11-Sm 10-De	LA 53-Sm 45-PE12	NY 20-RSt2 7-JEs	RI 11-RS2 8-YB	WZ 13-KB2 13-Ym
122-DBu 84-Fm2	ME 29-RSt2 18-JE2	NJ 60-JFe 55-RSc	SC 38-DBu 35-JEs	DC 13-Sm 13-DN1

CANADA

PROV # -DXER # -DXER	PROV # -DXER # -DXER	STATE # -DXER # -DXER	STATE # -DXER # -DXER	STATE # -DXER # -DXER
AT 18-JJe2 15-JPi	NS 8-Sch 6-JPi	ABU 1-JPi 0-None	JAL 12-Tmc 9-Vea	SD 2-Tm2 8-None
BC 17-JJe2 7-JE2	ON 77-DB1 68-JE2	BCN 10-Fm2 9-JPi1	WIC 1-JPi 0-None	SD 1-Tmc 1-CB
MB 15-Fm2 9-Fm2	PE 2-JFe 1-Fm2	CHI 6-JPi 6-Fm2	MOR 3-JPi 1-Vea	SD 2-Tm2 8-None
NB 3-Fm2 1-Fm2	PB 19-Fm2 18-Fm2	COR 6-JPi 2-JE2	NL 1-JPi 0-None	TAN 2-JE2 1-JPi
NF 9-Fm2 8-DB1	SA 8-Fm2 5-JN1	DF 21-Tmc 21-JPi	PUE 4-Tm2 4-JPi	VER 5-Tm2 4-JPi
		STO 7-JPi 2-Tm2	SIN 2-JJe2 0-None	YJC 1-JPy 0-None

FOREIGN

COUNTRY # -DXER # -DXER	COUNTRY # -DXER # -DXER	COUNTRY # -DXER # -DXER	COUNTRY # -DXER # -DXER
CUBA 1-KS1 1-JFe	The stats must represent the total number of states/provinces logged from a single specified DXer's location. 1st & 2nd place DXers are listed.	FM Statistics is now computerized, as you can see above! Please send your updates and suggestions for this column.	Hope you all have a profitable DX season at the dials - 73, Fred.
BERMUDA 2-FN2 2-DN1			
GUATEMALA 1-KS1 0-None			
JAMAICA 2-JPi 1-Tm2			
PUERTO RICO 1-DB1 1-JFe			

KEY TO ALL-TIME FM DISTANCE/STATS DXERS INITIAL/NAME/LOCATION

ABu Andy Bolin	IL Charleston	DBu Danny Buntin	OK Stillwater	Fm2 Frank Merrill MI Milan
AM1 Alan Michalek	MA Springfield	DMo Dennis Mo	IA Arisgar	Fm2 Frank Merrill OH Toledo
BE1 Bruce Elving	MN Duluth	DNi David Nieman	NY Akron	Fm2 Fred Nordquist NY Clay
BE12 Bruce Elving	NY Duluth	DDG David C'Jell	AR Little Rock	Fm2 Glenn Hauser TX Von Ormy
BE13 Bruce Elving	NE Kearney	DDo Daniel Dettling	PA Brookville	Fm2 Glenn Hauser OK Enid
Cho C. Howington	OK Uniontown	FCa Frank Adam	OR Bend	Fm2 Jim Ayers TN Murfreesboro
DBr Dave Brunfield	IN Muncie	FMc Fred McCormick	ND Des Lacs	Fm2 John Comos FL Orlando
		FMc2 Fred McCormick	ND Fargo	

(CONT)

KEY TO ALL-TIME FM DISTANCE/STATS DXERS INITIAL/NAME/LOCATION CON

JB	John Ebeling	NY Binghamton	WB	Mike Bigaj	CT Enfield	RW	Richard Wood	LA Batt. Ridge
JB2	John Ebeling	NY Potsdam	AD	Neil Dickerson	MD Germantown	RW2	Richard Wood	CT Medfield Nat
Je	Joseph Fela	NJ S. Plainfield	PD	Pat Dyer	TX San Antonio	SC	Gail Chernos	IN Burnt River
JJe	John Jefferson	CA Concord	PSa	Peter Samatzky	NY Waterbury	SS	Stu Grade	IA Sioux City
JJe2	John Jefferson	CA Pleasanton	PR	Russ Brown	MI St. Joseph	SR	S. Remington	CT New Haven
JJe3	John Jefferson	AK Anchorage	RC	Robert Cooper	OK Oklahoma City	ST	Steve Coffey	IN Vincennes
JP1	Jim Pizzi	NY Livingston	RL	Ron LeBlanc	LA Maricao	SW	Steve West	CA Havertown
JP11	Jim Pizzi	CA Everett	PSa	Ric. Sanford	TX Burnett	TP	Ted Fleischacker	KY Louisville
JP12	Jim Pizzi	CA Santa Maria	RG	Bob Schweitzer	NJ E. Brunswick	TM	Tim McVey	TX Dallas
JS	Joseph Smith	NY Johnson City	RS	Robert Seybold	NY Dunkirk	VEA	Vernon Eaton	AR Benton
KS1	Ken Simon	FL Lake Worth	RST	Ralph Strobel	IN Muncie	WBI	Waldo Bishop	FL Tallahassee
LW	Larry Vogt	VA Springfield	ST2	R. Steinberger	WA Hudson			

Bob Seybold
Bennett Rd. RD#2
Dunkirk, NY 14048

July 1984



DXer	LOCATION	TOTAL	UHF	XLTR	BS	AU	YB	as of	MS
Bob Seybold	- NY Dunkirk	915	436	107	194	6	50	6/84	30
Bill Draeb	- WI Kewaunee	887	365	101	190	1	53	3/84	113
Don Ruland	- WI Kenosha	525	260	36	91	71	3/84		31
Paul Gaines	- MI Detroit	527	249	23	81	73	4/84		28
Marvin Shultz	- IL Toulon	492	203	27	123	65	1/80		26
Tom Yingling	- MD Baltimore	460	228	44	185	70			12
Geo. Rogers	- GA Chickamauga	425	83	3	249	80	3/84		7
Jim Pizzi	- NM Lovington	412	160	99	153	81	12/83		14
Robert Kramer	- IL Chicago	388	160	10	90		8/80		30
Fred McCormick	- ND Fargo	394	81	105	113	2	74		1
"	- ND Des Lacs	373	28	31	213		64		45
Mike Hollis	- AL Enterprise	371	175	11	75	80	5/84		13
Nate Ely	- WI Madison	315	180	33	35		2/84		2
Frank Wheeler	- PA Erie	289	61	1	122	2	55		5
Mike Lapinski	- NY Jamestown	279	202	44	15				
Richard Reese	- PA Jersey Shr.	262	45	7	152	79	5/83		28
Fred Nordquist	- NY Clay	239	102	11	70	69	7/83		3
Alan Michalek	- MA Springfield	216	64	6	101		4/84		
Saul Chernos	- ON Toronto	161	6		94	76	3/83		7
"	- ON Brunt River	60	23		12	79	3/83		
Steve Sprachman	- NY Seaford	154	84						
Mike Hogan	- IL Burnham	168	88	1	42	73	6/84		
Ron Purdue	- MN Byron	130	58	22	26	81	5/83		
Bob Schweitzer	- NJ E. Bruns.	156	103	14	4	76			
Mike Cunningham	- WV Harrisv.	79	37		8	83	3/84		
Roy Barstow	- MA Teaticket	287	145	27	76	1	4/84		4

Some of Don Ruland's personal best:

WLBT-3	Jackson MS	trops	730 miles
WALA-10	Mobile AL	"	830 miles
WMAH-19	Biloxi MS	"	850 miles
W39AB	Greenv. TN	"	510 miles
CFRN-3	Edmonton AT	E-skip	1430 miles
WTVN-6	Columbus OH	MS	320 miles shortest MS

Some of Nate Ely's personal best:

KBCI-2	Boise ID	E-skip	1360 miles
KAID-4	"	"	" miles longest
WFMY-2	Greensboro NC	"	715 miles shortest
KXTX-39	Dallas TX	trops	820 miles
KXTA-21	"	"	" miles longest UHF
WTAJ-10	Altoona PA	trops	590 miles longest VHF

That's it for this time. Let's see some updates of your totals soon. Also, see you at the WTFDA convention in Jamestown, NY. Let's see you there.....

73's Bob

FM NEWS

Bruce F. Elving, Ph.D., Editor

4515 Avenue E

Kearney NE 68847

Stereo Stations (\$)

GA Cartersville WCCV	*91.7
IN Covington WFOF	*90.3 B (Nat'l Black Net)
IA Iowa City KRUU	*89.7 S (AP Network news)
TX Sebrook K2RQ	92.1
UT Roy KRGO	107.9
PR Mayaguez WAEI	96.1 m, duplicates
WZT-93.7 San Juan	100.9 m
VI Charlotte Amalie WIBS	97.9 r, Satellite /

New FM Stations Granted

AK Juneau KTKU	105.1 3800 h, minus 1060'
FL Miami	96.5 100000 h, v; 920'—initial decision, subject to reversal
IN New Carlisle WLPZ	102.3 3000 h, v; 160'
IN Petersburg WFOF	102.3 3000 h, v; 300'
KS Topeka W88.3	35000 h, v; 240', Stereo, g—Quality Public Broadcasting

MN Ada KJHE	106.3 3000 h, v; 275'
MN North Mankato KDOG	96.7 3000 h, v; 300'
NV Carson City KNSS	98.1 15000 h, v; 2670'
NV Gardnerville-Minden	99.3 3000 h, v; 730'
OK Ponca City 100.1 KXRM	3000 h, v; 300'
OR Enterprise	92.1 3000 h, v; 650'
PA Jersey Shore WJSA	93.5 3000 h, v; 145', g
SC Ravenal WGQX	101.7 3000 h, v; 300'
TX Carrizo Springs KQMG	93.5 3000 h, v; 300'

SCA (67 kHz)

IL Urbana WILL-FM	101.1 1000 h, v; 100'
IL Clifton KJFF	98.3 1000 h, v; 100'
IN Indianapolis WAJC	104.5 1000 h, v; 100'
IN Kendallville WBTO	93.3 1000 h, v; 100'
IN Plainfield WXIR	98.3 t (data noise)
IA Iowa City KSU	91.7 t
KY Brandenburg WMMG	93.5 t t (main carrier or AM affiliate audio); RKO news on main carrier

KY Elizabeth WQXE	100.1 t ABC networks
MI Greenville WPLB-FM	107.3 music
IN Danville WGRT	107.1 t (KADO-FM)
CO Grand Junction 92.3 KVEE (KREX-FM; affects 17 translators in CO and UT)	
FL Daytona Beach 101.9 WCFI (WDOQ)	
FL Sebring 105.5 WCAC (WSPK)	
FL Tampa 90.5 WECB	

IL Granite City 106.5 KWK-FM	(KWK-FM)
IL Peoria 105.7 WWCT	(never changed to WOTF)
IN Bloomington 92.3 WTTG (WGTC)	
IN Vevay 95.9 WGVK (WAVV)	
KS Garden City 97.3 KXJO (KBFU-FM; still using old calls and "97-Country"; non-ID; has Satellite Music Network for music, news	

KY Hazard	*90.8 week
KY Louisville	106.9 WVEZ (not to go to - WRKA), staying beautiful
KY Matthews	97.1 WRKA (not to go to WVEZ), rr
LA Slidell 105.3 WLTS	r, "Lights"
LA Vamado	92.7 WBOX

MO Seigman	95.3 KHC
NE Columbus	101.1 KLR (KOXI), still using old calls as of 7-3-84, but "FM-101" now strictly used, except on the hourly ID
NE Imperial	103.1 KKEI
NY Canton	*96.7 WJGT (WLSU)
NC Durham	107.1 WFXC (WDBS)
OK Ardmore	92.1 KEBO (KELS)
OR Cave Junction	102.7 KBGK (KIVR-FM)
OR The Dalles	97.7 KMCQ

RI Block Island	93.3 WITO
SC Goose Creek	94.3 WLNB (WBXJ), rock
SC North Charleston	90.7 WFYH
SC Ridgefield	104.9 WXR-YFM
TX El Paso	*85.5 XCR
TX Ft. Worth	95.9 WFMX
TX Hause	94.3 KHRN
VT Brattleboro	96.7 WTSF-FM (WMMU)
VA Warrenton	107.7 WMUR (WWK)
WA East Moline	WLLR 101.3 no Mutual

WA Galesburg	WAAG 94.9 S (AP news, no non-ID, T FSCA (same as WILL-FM's, except data noise much less prominent)
IL Peoria	WGLC 95.3 NBC t G SCA (Moody Radio Network, sponsored by "Central IL Radio Fellowship")
IL Redding	104.9 WNFN (WRDB-FM)
WI Manitowoc	WATL 97.1 KTRW (KTRW); also NC High Point WGLD 100.3 adds Greensboro-Winston Salem
WI Milwaukee	WVPE *88.1 adds South Bend

Facilities to be Changed

AR Mountain Home	KGHL 106.5 1700 h, v; 415'
CA Oakhurst	KAAT 107.1 280 h, v (1070)
CA Redding	WATL 97.1 KTRW (KTRW); also NC High Point WGLD 100.3 adds Greensboro-Winston Salem
PR Aguadilla	WRF-E 105.5 adds Mayaguez, now g
PR Aguadilla	WTPM 92.9 adds Mayaguez, bg
PR Guyana	WSRA 106.9 adds San Juan, b
PR Fajardo	WDOY 96.5 adds San Juan

KS Hays KHAZ	99.5 k (not on air yet)
LA Baton Rouge WQXY	100.7, dropping b
LA Tioga KICY	98.3 rock
KY Fort Knox WWKK	105.5 r (hits), no non-ID
MI Birmingham WMJC	94.7 RKO (from Y)
MI Detroit WQD	93.1 UPI (from R)
MO Knob Noster KLUK	105.5 k (long distance), not s
MO Monroe WMNR	98.1 11000 h, v; 240'
FL Fort Myers WSFP	*90.1 815' (100000 h, v)
FL Panama City WKGC	FM 90.7 100000 h, v (340')
GA Atlanta WPCW	94.9 970' (98000 h, v)
GA Brunswick WGIG	100.7 100000 h, v; 450'
GA Statesboro WVGC	*91.9 (from 107.7) 100000 h, v; 500', reduces

coverage

MI Warsaw WTKJ

99.3 (from 103.9—although

Mike Dorner claims it is to go to 104.7 as a

new Class A on a B/C channel)

MI St. Louis Park KDXL

106.7 (from 91.7—expects

to be on the air, 1984, as is to be WIRR

*9.9 Virginia-Hibbing MN,

NE Omaha K285- 1

FCC-FM
Off Air and Not DX Ready
IA Des Moines K269AC *101.7 (KFGO-FM)
IA Elkhorn K274AA *102.7 (KUNII)
NE Aurora KJAE 103.1 (left recorded message
with them; they haven't called back)
VI Charlotte Amalie WSTT 101.1
INDIANA COUNTIES GOING ON EASTERN
DAYLIGHT TIME (in addition to those shown on
the FM Atlas) Clark, Dearborn, Floyd

660 [daytime] Omaha (now KCRO, g.) In the army, he hung around PXes and noted that the GIs kept playing the same records. Even the waitress would play the same ones after closing. When he returned home after service, he persuaded his father to mortgage the successful family farm to buy KOWH, which was for sale. The station became an immense success, beating out WOW and KFAB. WTIIX, meanwhile, was a founding classical music station on 1450. Storz bought it, and wondered if his format would work in the large cosmopolitan, multi-ethnic market that is New Orleans? Well, I was 14 when Storz came to town in 1953. The station was an immediate sensation. Popular music 24 hours a day, remotes, incredible cash give-aways—it was top 40 at its finest. In 1958 Storz bought a weakened independent on 690, WZEZ, transferred the WTIIX call to it and built the station up to 10,000 watts. For almost 25 years WTIIX was No. 1—its closest competition, WNOE 1060, never able to beat it. Many other competitors gave up—WJBW, WDSU, WSMB, WNR, WIXO (FM), WRNO (FM). Recently, WTIIX, the flagship of Storz's 6-station fleet and nationally celebrated as "the grandaddy of all top 40 stations" was sold. The new owner, Price Custos of New York city, is planning format changes, and the local newspaper writes of large staff defections and low morale. What happened? Simply this—FM beat the hell out of it. First, WTIIX slipped to second; then third, then somewhere down near 6th on Arbitron's list. By August, 1983, it was no longer in the top ten. Surely, Bruce, this is a watershed in the story of radio. WTIIX—nationally known as the first of the real top 40's, the format that saved the radio medium in the glory days of television growth, is gone. At least, the WTIIX we knew. And FM did it in... WABC New York was a marvel, too, but it—and WLS Chicago—were inspired by WTIIX!

Other news from Mike: "Public Radio in Mississippi" no longer identifies each of its stations, but only uses the network title and its Jackson address, with live weather announcements. I assume they have FCC authorization. Strange—I hope this is only a temporary arrangement, but knowing the Fowler FCC, I would not be surprised with any rule coming out of it that may make call letters' announcing and even having calls unnecessary. See earlier reports on WJYL and WKLQ, previous page. If this is the case, I think we as DXers should get together and protest to the FCC and to the individual stations—perhaps a good idea for ANARC to take up at its convention.

Mike was disappointed that only about 12 high power allotments were made in the proposed FM channel assignments, the rest being Class A. Mike claims that both WKJC 103.9 Tawas City MI and KERG 100.1 Garberville CA are being given new assignments—WKJC to 104.7A and KERG to 100.3 C-2. I have seen nothing official on either of these, with FCC microfiche saying WKJC is going to 99.3, so that is where I am placing it for now. With WKJC moving, 103.9A is available at Schenectady MI. KERG wants improved coverage in its mountainous area; the present Pratt Mountain transmitter site will be retained.

KURU *89.1 San Antonio is delayed in coming on the air, after a 7-year effort by local groups failed to come up with the money to put the station on the air, according to an article sent by David Curvin. Western Public Radio, San Francisco, is sending personnel to help, as they have done in Denver, where KUVO *89.3 is still waiting to sign on. And Dave kindly sent material on a TV or FM-SCA use involving changing road signs, with both commercial and public service messages possible.

WVIS 106.1 in the VI's owner says "My business is not doing that well due to the fact of lots of increased competition by 14 other stations from nearby islands, shoppers and TV stations selling spots at \$10, with rate-cutting. There is little if any national business placed here. I'm considering increasing power to 20000. "

An interesting program, "The Folk Sampler," out of Siloam Springs AR, is heard on a variety of stations, including KUAC Fairbanks, KPBS San Diego, WNPR Hartford, WBEZ, WJUM in IL, WIAN Indy., KANU, KANZ in KS, WFPL Louisville, WMEH, etc. in ME, WBLY Twin Lake MI, WSKG Binghamton NY, WCBF Columbus, WVPR Windsor VT, WRFK Richmond. We may share mailing lists in the future.

WKRK *89.9 New York got a new transmitter, helping the SCA to sound much better. In-Touch Networks, on WKCR's SCA, however, has filed on top of WKCR and wants its facility for itself. An SCA monster gobbling up the main station?

An article in "SCA: Radio Subcarrier Report" mentions a plan by Atari and Activision to distribute video games via SCA. The first two test markets will be Steubenville OH and Utica NY, said to be "hotbeds of video game activity."

Back to AM radio briefly, Detroit's WXYZ is being sold by ABC to its general manager, Mr. Fritz. (First part of article sent by Paul Gaines I misplaced, so I don't have his first name.) Sale does not involve ABC's WJR 101.1. WXYZ has declined to sixth with a 5 share among Detroit's 30-some stations. Station had not been profitable recently probably due to ABC overhead problems and FM. It is famous as the station that originated national broadcasts of *The Lone Ranger*, *The Green Hornet* and *Challenge of the Yukon*. Paul points out that WDET *101.9 uses the studios that

READERS' REPORTS

August, 1984

There is less station news this month because of an earlier deadline, because of going on vacation. The new "FM Atlas" should be ready about the time you read this; its larger-than-ever size is going to take a little longer to print.

Mike Dorner, in talking about the move of WAIL to WLT 105.3 Slidell as a rocker, says that they hired Robert Mitchum, the 18-year program director of WTIIX (AM) in the same capacity and as morning drive man. "This is a guy who had little use for FM 12 years ago! I know your interest is FM, but the following deserves a space in your column. WTIIX 690 New Orleans is the station that made Todd Storz famous. He came down to New Orleans with his top-40 format (local news at :55) from a successful stint with KOWH

660 [daytime] Omaha (now KCRO, g.) In the army, he hung around PXes and noted that the GIs kept playing the same records. Even the waitress would play the same ones after closing. When he returned home after service, he persuaded his father to mortgage the successful family farm to buy KOWH, which was for sale. The station became an immense success, beating out WOW and KFAB. WTIIX, meanwhile, was a founding classical music station on 1450. Storz bought it, and wondered if his format would work in the large cosmopolitan, multi-ethnic market that is New Orleans? Well, I was 14 when Storz came to town in 1953. The station was an immediate sensation. Popular music 24 hours a day, remotes, incredible cash give-aways—it was top 40 at its finest. In 1958 Storz bought a weakened independent on 690, WZEZ, transferred the WTIIX call to it and built the station up to 10,000 watts. For almost 25 years WTIIX was No. 1—its closest competition, WNOE 1060, never able to beat it. Many other competitors gave up—WJBW, WDSU, WSMB, WNR, WIXO (FM), WRNO (FM). Recently, WTIIX, the flagship of Storz's 6-station fleet and nationally celebrated as "the grandaddy of all top 40 stations" was sold. The new owner, Price Custos of New York city, is planning format changes, and the local newspaper writes of large staff defections and low morale. What happened? Simply this—FM beat the hell out of it. First, WTIIX slipped to second; then third, then somewhere down near 6th on Arbitron's list. By August, 1983, it was no longer in the top ten. Surely, Bruce, this is a watershed in the story of radio. WTIIX—nationally known as the first of the real top 40's, the format that saved the radio medium in the glory days of television growth, is gone. At least, the WTIIX we knew. And FM did it in... WABC New York was a marvel, too, but it—and WLS Chicago—were inspired by WTIIX!

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Regarding WVCA 104.9 Gloucester MA, still c, still mono, but adding vertical polarization—the U.S. Court of Appeals told the FCC to reconsider the denial of license renewal of WVCA, which is a one-man FM station owned by Simon Geller. So he may win yet, comments R. H. Perrin.

Peter Nolan sent along a complete listing of Transtar Radio Networks, from which some of the "i" and "k" format listings were derived on the previous page. Some of those stations (or possibly most of them) also carry Transtar news, which I do not list as a network, as it is primarily a satellite-delivered music service.

John Clemmer says KBQC 93.5 Bettendorf IA still not on; was supposed to be on months ago. Waterloo's KFMW 107.9 still does not have the signal they had before their tower fell last November in an ice storm; obviously, not on with full power or antenna height. PA Philly, WXTU 92.5 is indeed country, ex soul; this from about four different sources including Billboard. [I heard it myself, John, via skip, and confirm k on it—but it's a very mild form of country, almost easy-listeningish, from what I heard.]

Pete Nolan again: "For the sake of accuracy, Eric Norberg was at KEX/KQFM (now KKRZ) in Portland, not KGW/KINK. He was program director, is general manager and part owner at KWIP (AM) near Portland, and his AM stereo comments in Broadcast (I thought) had a good deal of validity. I don't think Eric—or anyone else—is proposing that AM stereo will enable AM fidelity to obviate that of FM—just that it may help AM stations be more competitive. There's plenty of room for stations on both bands to attract listeners and make money. While Al Germond's points were also well taken, the bit about 'sick garbage' and this yo-yo, turns my stomach—that sort of petty shot doesn't help anyone." *Contributors—July 1984: Ryan, Aden, Jr., Portland OR; newly rejoined members: Jim, Peter, and Howard, Hinsdale IL; David, New York; Phil Boersma, Spring Lake MI; Jon Brubaker, Savanna IL; Jim Buscher, Washington DC; Bill Coleman, Jr., Rocky Mount NC; John F. Combs, Orlando FL; Ernest R. Cooper, Provincetown MA; Geo. Derringer, Demarest NJ; Dennis Ward, KDCR Sioux Center IA; Geo. Ebeling, Bloomington MI; Larry G. Full, Jackson GA; Paul J. Gaines, Detroit MI; Jerry Goss, Eau Claire WI; William E. Hensley, Youngstown OH; Gary Jones, Pd., KGMG Eagle CO; Jarrell Kautz, Columbus OH; Nick Lombardi, Atlanta GA, who says Gwinnett County GA has two n's; Fred McCormack, Fargo ND; Robert McCormack Clinton IL; Peter A. Nolan, Galveston TX; Fred Nordquist, Clay NY (with a new computerized FM Scoreboard for his station); Mike O'Farrell, WJY 94.5 St. Johnsbury VT; Mike O'Farrell, Rod J. O'Connor, Kodak AK; Walter Patton, Willowdale, Ont. (supplier of most of the Canada news); Jim Pizzi, Lovington NM; Richard Reese, Jersey Shore PA; Eddie Scott, Toccoa Falls GA; Ron Seymour, Pittsburgh PA; Don Weller, Louisville KY; Dr. Richard W. Williams, WJY 94.5 St. Johnsbury VT. This month: Joe Bala, Frankenmuth MI; Baker J. Clemmer, E. Moline IL; Dave Curvin, San Antonio TX; Mike Dorner, Metairie LA; Ted Fleischaker, Louisville KY; Mike Flynn, Siloam Springs AR; Gaines, Dean Hannotte, New York NY; Larry Hart, Ingleside CA; Jimmy Laccetti, Doraville GA; Nolan; Richard H. Perrin, Wells ME.*

7311, *B. Curvin*

NORTHERN FM-DX

Saul Chernos
79 Ridge Drive
Toronto Ontario
Canada M4T 1B6

August 1984

*After a superb May for Es, June has certainly been quiet on that front. What seems to be my annual mid-June Tropo opening produced some interesting stuff, but, oh, tragedy has struck!! My rotor had frozen, and guess where? Due north. I'll be OK for Au, but for Es & Tr, well there ain't much north of me. With my luck, the broken rotor means the Es will be back shortly.

*If you're getting New York City on Es in the late hours, check 91.5-91.9 for pirates. KPRC, "Stereo Nine", WHOT, "Music Radio 93" and others all operate there, and quite often, according to DX bulletins and word of mouth. If you can log a 10-watter by Es, you can get pirates

NORTHERN FM DX is for YOU if you if you DX from AK CT HA ID ME MD MA MT NE NH NJ NY ND OR PA RI SD VT WA WI, CANADA and OTHER COUNTRIES. This column has never had reports from the underlined states since I've been editor. Who wants to be "first"? Here are a few reports.....

ERIE COOPER - 5 ANTHONY STREET - PROVINCETOWN MA 02657

JAN 1984

7 Es

1402 KZIO 102.5 WI Superior Came in suddenly as I was listening to the Metropolitan Opera on local WCRB. KZIO was r UPINx

1513 KBHP 101.1 MN Bemidji local ads
1536 KPNW 97.9 ND Fargo g faded 1545
(This minor opening was a small area in almost a straight line across Minnesota!)

16 Tr
1135 WMCM 93.5 ME Rockland r ads mention of AM affiliate on 1450-WRKD

FEB

14 Tr

0050 WHCN 105.9 CT Hartford network phone-in re I gave up QSLing returns were taking at least 1 1/2 months; report what you do get back to the QSL column—saul)

INTERFERENCE PROBLEMS!!!!

Since they strung the TV cable through our street, I've been getting nasty interference on FM setup of the Realistic STA-52 & McIntosh MR-78...like the wx stn on 91.7, Cinemax on 90.3, a TV rock mx stn on 91.3, and HBO on 107.1, plus a few FMs on two freqs - their own, and where the cable has placed them. I didn't subscribe to cable FM; only the TV. They've sent repairmen here to fix the bleeding, but were unsuccessful, saying they'd return in a few days "with their boss"; six weeks later, still no "boss". The FCC Boston & Washington offices have been notified. (go get 'em Ernie, I just had to do the same here due to Hydro leakage killing AM FM TV SW. The FM TV problem disappeared just before the D.O.C. engineer was to come; and since I don't dx AM or SW much in summer, I told the guy to wait.—saul)
I'm back to feeling like myself again after my quadruple coronary by-pass on Feb 29th. But those few weeks after surgery were no picnic! I plan on attending the convention in Jamestown & I hope to see a lot of you there. Have a great E-Skip season! —Ernest.
(glad all went well there, Ernie, and I'm looking forward to seeing you and others at J.NY—saul)

HARRY HAYES - 9 HENRY STREET - WILKES BARRE PA 18702

It's the best MAY ever for skip that I can remember since at least the mid-70s/Early 70s. At least 3 FM inclusive openings (more—saul) so far and it's not even Memorial Day yet; usually, skip begins around Memorial Day. Totals so far: 695, 314 by Es.

MAY 1984

6 Es

1155 KICT 95.1 KS Wichita "Your World Tour Stn"

1159 KANU 91.5 KS Lawrence

1202 KJCK 94.5 KS Junction City

1211 KJLS 103.3 KS Hays may jingles rp

1214 WIBW 97.3 KS Wichita

1224 KPNF 101.1 KS Oberlin

1227 KDCX 95.5 KS Dodge City "95DCX" ex-KGNO

1233 KTRX 93.5 MO Tarkio

1240 KELM 97.1 NE North Platte

1253 KWYR 93.7 SD Winner

19 Es

1134 KIXS 93.3 TX Killeen

1156 WJAD 97.3 GA Bainbridge

20 Tr

6000 WBSE 104.3 MD Baltimore fadex

0025 WEBE 107.9 CT Westport fadex

24 Es

1128 KNEN 94.7 NE Norfolk

1138 KKRC 93.3 ?? is this KMCK?

Radioshack Rabbit Ears w/ Radioshack FM amp for Tr Es; homemade stacked FM quad loop, cut for 104 Mhz., for Ms Au. I use quad-loop

w/ RadioShack amp & get excellent results, better than the rabbit ears, but with uncontrollable overload below 103.5 on it, so this is why I use the rabbit ears for Tr & Es, as I can control the overload much better w/ the tuner on the Rabbit ears. I can control overload somewhat with the loop by repositioning it in various places around the house, but the low-band (MORE) →

overload is too much of a nuisance during skip openings, where the low-band is most vital. The quad-loop consists simply of two wooden frames with an inside measurement of 28½ inches stacked, or set apart on four wooden slats, at 13.6 inches. Strung on the inside of each frame is split zip cord, or lamp cord wire with one wire fed to the amp. and RX, and the other a closed loop. I derive my measurements from an article appearing in a 1974 VUD by Bill Smith; that is, your desired Mhz divided into 248 will give you your length of loop sides in inches and your desired Mhz divided into 118 will give you your stacking distance. Thus for 104, this goes into 248 about 2 1/3 times or 28½ inches, and 104 will go into 118; 1 and a fraction over. Using a slide rule (I'm from the old school, heh!) you can easily convert the remainders into exact inches. This is a portable indoor antenna, and with an amp, comes as close to giving "outdoor" results as anything possible. Anyone wanting more information, please write to me.

(Now here's an idea... (THIS IS SAUL NOW, HARRY'S THROUGH)... suppose in each VUD-perhaps in a column form- one WFTDA member can write at length about his system. That includes not only equipment, but location, local topography, local weather patterns of a unique nature. In other words, a real all-inclusive in-depth description. Just food for thought there...saul)

DAVE NIEMAN 12284 NICE ROAD - AKRON NY 14001 Carver TX-11, Pioneer TX-9100, \$Probe9, dipole

MAY 1984

6 Es (MUF 100.9)

1224 KMUW 89.1 KS Wichita j \$ 1050
1226 KHCC 90.1 KS Hutchinson c \$ 1045
1229 KZED 93.5 KS Wellington b \$ 1065

13 Es (MUF 100.1)

1500-1700 Es to Canadian Maritimes;
nothing in long enough to positive ID

19 Es (MUF 107.5)

1021 KSEJ 88.1 TX Humble g \$ 1270 1275
1103 KUHF 88.7 TX Houston j\$ (right o/WBFO Buffalo
1119 KATT 100.5 OK Oklahoma City rp\$ "Rock 100The Cat"
1130 KKCC 106.9 OK Clinton r\$ 1170 1115
1137 KBXR 97.3 OK Weatherford r\$ (ex-KWEY) 1160
1156 WFLA 93.3 FL Tampa r\$ "93-FLA-FM" (ex-WOJC) 1060
1158 WQPD 94.3 FL Lake City r\$ -Dave 930

BRUCE ELVING - 4515 AVENUE "E" - KEARNEY NE 68847 CST Time

Lately, skip has hardly left me alone. I'd be at the typewriter, just letting the skip station play as background, not giving them the attention I usually do. I've used info. from the skip in updating my FM Atlas as I type it. (now THAT'S what I call up-to-date! -saul)
I'm tentatively planning to go to Jamestown NY. Now, my 1984 Kearney NE DX to date:

MARCH 14 1984 Tr

KCAY 95.9 KS Russell; KBBE 96.7 KS McPherson..., both w/ new calls; the new-to-air KTSD 91.1 SD Reliance which I often use for NPF listening, KDBP 96.9 KS Pittsburgh and KCSC 90.1 OK Edmond-OKC. KSIW 95.5 OK Woodward heard the last day semi-local KEZB NE Hastings was on that freq. KEZB provided no interference; since then KEZB has been on 101.5. KKBS 92.7 OK Guymon in \$; and KWOK 101.1 OK Woodward with legal ID at 0900 CST.

APRIL 11 Es

From 1356-1435, WQDR 94.7 NC Raleigh; WFVR 94.9 VA Roanoke; WBKU 99.5 WV Beckley no \$, SCA not heard, but open carrier suggesting something may have been wrong with its Muzak; WREB 95.1 MD Baltimore; WGMG 92.7 DE Rehoboth Beach.

MAY 20 Es

: w/ IN hrd, I've got all lower states exc. ME NH :
KELT 94.5 TX Harlingen mx SCA at 1923. : VT here, & only IN MI by Es, not Tr as I'd thot..

MAY 31 Es

2104-2044: WPTG 90.3 mono PA Lancaster; WANJ 107.5 WV Wheeling; WBGU 88.1 OH Bowling Green mono; Indiana(new state)came in on WBNI 89.1 and WBCL 90.3 both IN Fort Wayne; also WXTU 92.5 PA Philadelphia with MOR-ish Country.

JUNE 4 Es 1959-2100:

KMZQ 100.5 NV Henderson; KITT 96.3 NV Las Vegas \$ "hard rock" (Bruce's term, not the stn's); KRUZ 103.3 CA Santa Barbara w/ calls only; KKNU 102.7 CA Fresno b; and WDUV 103.3 FL Bradenton. Lots of Es lately has had combinations of South FL with NV CA simultaneously...

JUNE 5 Es:

KMET 94.7 CA Los Angeles calls only at 1041; KJYK 94.9 AZ Tucson "K-Joy" & calls at 1145; thus they're not a strict non-IDer; KXCI 91.7 (WHERE? Saul) \$ at 1159; XHNL w/ calls in SS at 1259 on 94.9 & mentions of Monterrey, Nuevo Leon, Mey-hi-co (SS for Mexico-saul); KRWG 90.7 NM Las Cruces at 1300; KEZG 92.1 AZ Green Valley b at 1315.

JUNE 7 Tr:

MORNING: KEEZ 99.1 MN Mankato calls 0910.

JUNE 7 Es:

EVENING: WGUC 90.9 OH Cincinnati took over beautifully at ID time at 1900 o/ a weak KUCV NE Lincoln in a way Mel Wilson would applaud; then WVPB 91.7 WV Beckley 2000 just returning to air w/ new antenna after using temporary one for a year, were asking for reception reports, to which I complied. Also, WAMU 88.5 DC Washington "88-FM" perfect signal also its SCA w/ b.; On SCA WGAY 99.5 DC Wash. gave complete ID & ads. WGAY itself was there, but because of the MUF, it was in more often & sounded better on 88.5 as SCA (huh? did you mix up the freqs?saul)

JUNE 8 Es:

WTEB 89.5 NC New Bern c \$ no apparent NPF affiliation, hrd at 0900; WCEZ 93.5 SC Columbia 0910; WMPR 90.1 MS Jackson mono despite \$ listing at 2029, KAYD 97.5 TX Beaumont 2208; also hrd KKAN 95.3 KS Phillipsburg testing in \$ km music, chirping (telemetry)SCA. (KKAN not Es I assume-saul)

After an exciting May, June has been incredibly awful, and because the VUD is a "family publication", I can't even begin to express how I feel about the June Es. At least the weather's been good, so BURNT RIVER has been less of a DX site and more of a sun-worshipping, fishing and sailboat racing QTH. Today July 1, MUF hit TV-4, so maybe we're due for a change...

MAY 28 Tr

2103 WCEN 94.5 MI Mt Pleasant k wx

31 Es

2138 KDKC 95.5 KS Dodge City "95-DCK" wx

2145 KKNG 92.5 OK Oklahoma City "King, KKNG-FM-9..."

2150 KJCK 94.5 KS Junction City

2152 KHUT 102.9 KS Hutchinson

2153 KAKZ 95.9 KS Derby

2154 KICT 95.1 KS Wichita

2156 KOEZ 92.3 KS Newton

2159 KMUW 89.1 KS Wichita

2203 KANZ 91.1 KS Garden City wx

2208 WIND 92.1 "92-KFM" rp

2211 KRAV 96.5 OK Tulsa "460-KRAV" ph#

2230 KSLS 101.5 KS Liberal "KSLS-101½"

2242 KNIID 96.9 OK Erid

2245 KWOK 101.1 OK Woodward "K-101"

2250 KWHW 93.5 OK Altus s

2254 KXKY 96.1 OK Oklahoma City "KXY"

2259 KZBS 98.9 OK Oklahoma City r

2301 KOMX 100.3 TX Pampa

2302 KWGS 89.5 OK Tulsa ment. UofTulsa

2303 KCSC 90.1 OK Edmond

2313 KLAW 101.5 OK Lawton "K-Law"

2315 KATT 100.5 OK Oklahoma City "Cat" r

2325 KJLC 88.5 MO Kansas City

2327 KDAK 92.1 OK Woodward

2332 KBXR 97.3 OK Weatherford (ex KWEY)

JUNE 6 Tr

0136 WJWJ 105.7 OH Cleveland "Magic-105.7"

0137 WJZZ 105.9 MI Detroit jazz (prev. Au)

11 Tr

2135 WIXX 101.1 WI Green Bay

2200 WBLV 90.3 MI Twin Lake nx

2231 CBOF- 88.7 PQ Chapeau FF CBC mono

2245 WMR 100.1 OH Kent "Near-100"

2330 CBC 97.5 ON Little Current new-to-air CBC-mono EE // CBCO 105.9 and CBL 740 Toronto

12 Tr

0130 WBNY 91.3 NY Buffalo p Finally an ID!

0140 WJFM 93.7 MI Grand Rapids "93-JFM" wx

0228 WOOS 106.9 OH Canton "Good Rock 107" r wx

0233 WYCC 101.7 PA Linesville r

0243 WNSW 94.5 PA Pittsburgh rm "3WS"

0252 WDSY 107.9 PA Pittsburgh k

0259 WAMO 105.9 PA Pittsburgh ment SBN Network which I assume Soul B'Cast Net. as soul mx

0320 WKKW 97.3 WV Wheeling wx r "97-WK"

So this closes things till the Sept VUD. I

sure hope things improve; notice how SMALLLLLLL the column is. I type what I gets. 73's, saul.

JUNE 12 Tr cont...

0350 WYKE 95.5 PA Johnstown "K-95" r wx

0418 WHOT 101.1 OH Youngstown "Jerry Starr, b" at FM 101...." Jerry is a DXer who

has been in a number of DX clubs, so it was neat to hear him during a superb Tropo opening. Y'hear that Jerry?

0429 WHTX 96.1 PA Pittsburgh

0458 WUUR 96.9 NY Utica pr

0500 WAMC 90.3 NY Albany

0510 WIND 97.1 RKO r ELT-TC ment. Springfield and also Burlington VT, and ancr. joked that he talked too much, which he did. Included lengthy sportscasts.

0550 CHOM 97.7 PQ Montreal r "ShowFM" EE

0559 WHHT 89.1 NY Schenectady c

0700 WGBH 89.7 MA BOSTON "This is WGBH, Boston... w/ freqs trin Signal Excellent!"

12 Ms (doubt Es as none on TV)

1830 WAFB 90.7 FL Orlando "This is WAFB Orlando, FL"

16 Au After this rotor breaks turned due Nth 0005 CBHA 90.5 NS Halifax "Wx for Hfx & vicinity" in my car outside cottage WHILE DRIVING! 0006 CBAF-19 92.3 NS Halifax CBC FF mono in car 0030 WPIT 101.5 PA Pittsburgh g ID on rotor 25 Es

1936 KKAZ 100.7 WY Cheyenne

1938 KPMY 92.1 NE Alliance "The mx source" \$r

1940 KFBQ 97.9 WY Cheyenne QTH TC ID seemed like KRPQ but may've been 2nd stn or my error

1945 KNEB 94.1 NE Scottsbluff

1950 KMOR 92.9 NE Scottsbluff UPInx

2030 KRGU 102.9 WY Laramie r wx Mtn TC

2032 KCGY 95.1 WY Laramie

2034 KDLY 97.5 WY Lander wx

2042 KGBS 96.1 CO Greeley

2044 KSID 98.7 NE Sidney

2051 KTRS 95.5 WY Casper

2100 KYOU 92.5 CO Greeley k

2109 KAWY 94.5 WY Casper r "KY-94"

2111 KYGO 98.5 CO Denver k

2118 KLOV 102.3 CO Loveland r

2120 KELN 97.1 NE North Platte

2122 KLMO 104.3 CO Longmont KC Royals AL bb

2123 KBCO 97.3 CO Boulder r

2124 KWTR 93.7 SD Winner rs

2129 KVRS 105.5 CO Sterling

26 Tr 2056 WUUU 102.5 NY Rome rm "U-102-FM" wx

801 JACKSON • BOX 600 • TAMPA FLORIDA 33601

97
WFLA

2617 EBRIGHT ROAD

WILMINGTON, DELAWARE 19810

WJBR

2617 EBRIGHT ROAD

WILMINGTON, DELAWARE 19

CENTRAL FM DX

August 1984

Ralph Strobel, editor
2300 E. McGalliard Rd.
Muncie, Indiana 47303

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431

In my opinion, June has not been a very good Es month. Have spent a total of 15 days at the cabin, and all the time I was there I monitored TV Ch. 2 and did not see very much skip. If there was any TV skip, it rarely made it up to the FM band. Report is as follows, with all times CST.

From Prosit, MN: 6/23 tr 0900 101.9 KKRZ ND Fargo, k 1000 90.1 K211? MN ? KAXE 91.7
5/29 tr 1015 93.1 WIMK MI Iron Mountain Translator not ided on 90.1, but announced as 101.7 in Brainerd. Freq. change?
5/8 Es 1930 89.3 KCBG TX Dallas
1938 93.3 KIXS TX Killeen
1944 107.5 KBUC TX San Antonio
1958 96.5 KTOU TX Corpus Christi
2000 95.5 KZFM TX Corpus Christi Translator in International Falls (new)*
"Z-95" used * Elving pls note!
2006 98.7 KTXN TX Victoria, From Bloomington, MN:
b, CNN nx 5/23 Es 2015 91.9 CBJ-1 PQ Chibougemou, j, French
2008 98.3 KORA TX Bryan, k 2026 92.1 GFTI ON Timmins
2031 97.3 KAJA TX San Antonio, SCA, k, "KJ-97" 2030 96.1 CBCJ ON Timmins
2100 99.9 XHSG COA Piedras Negras 2030 90.7 CBON-4 ON Kapuskasing, French
6/22 tr 0921 99.3 KLOR MN Walker 2100 100.9 CBJ PQ Chicoutimi, FF, j, c, (no SCMO)
2140 92.5 CJAX AT Edmonton 5/31 Es 2100 88.1 WRJA SC Sunter
2142 96.3 CKRA AT "K-lite" 2100 89.9 WJWJ SC Beaufort
2147 100.3 CKXN AT " 2157 90.7 WFAE NC Charlotte
2152 103.9 CISN AT "Kissin-FM" *Same j program. At 2100, went from j to
2159 90.9 CBX AT " c. Got good French ID on tape of CBJ.
2200 91.3 CKUA AT Drumheller That's it from here for this time, as no more DX to report. Regards, John Ebeling
+ + + + +

Jeff Kadet - Box 20 - Macomb, IL 61455
Equipment: McIntosh MR-78, Stereo Probe 9 up 60 feet.

1/7 Es 1300 CBHA 90.5 NS Halifax 6/9 Es 2015 KCEP 88.1 NV Las Vegas
1320 WAYU 93.9 ME Lewiston 2037 KSET 94.7 TX El Paso
1326 WKSQ 94.3 ME Ellsworth 2040 KLAQ 95.5 TX El Paso
1400 CK??? 93.1 NE Frederickton? gave ID as "KHJ-FM" 6/11 tr 0200 WVNO 106.1 OH Mansfield
1410 WWMJ 95.7 ME Ellsworth 0238 WGZT 92.9 OH Eaton-Dayton
5/20 Es 2021 KAMZ 93.1 TX El Paso 6/12 ms 0512 WFBM 89.3 FL Baynton Beach
2024 KWLV 95.9 TX San Angelo 6/15 tr 0415 WPPE 105.9 OH Middletown
2315 XHAAA 93.1 TA Reynosa 0421 WBTF 105.5 IN Bedford
6/1 tr 2337 WKPL 107.1 WI Platteville 6/20 tr 0107 WCMU 89.5 MI Mount Pleasant
6/9 Es 1840 KLYT 88.3 NM Albuquerque 6/21 Es 1752 WHSN 89.3 ME Bangor, 125w
1855 KNAU 88.7 AZ Flagstaff 7/1 tr 0200 KRUI 89.7 IA Iowa City
New Stereo Probe 9 put up on June 1 is twice as high as the old one was (60' vs. 30'). This will be helpful for tr to the NE/SE, former poor directions from here. WCAZ-92.1 is NSP now. Guess the bustling metropolis of Carthage, IL (population 3350), can rest easy knowing they have a 24 hour station. This effectively kills the best class A frequency here for AN MS. Total now 658. 73.

+ + + + +

Ralph Strobel - 2300 E. McGalliard Rd. - Muncie, IN 47303
Equipment: McIntosh MR-78, Stereo Probe 9 up 60 feet.

6/27 ms 0144 WJML 98.9 MI Petoskey, "...JML knows..." previous tr 300
0517 WATV 96.9 FL Jacksonville, "...on Wave-FM. Wed. night..." pr. Es 750
6/29 ms 0010 KZC 98.9 KS Leavenworth, "...KZ..." previous ms and tr 520
7/4 ms 0202 WCR 98.9 VT Burlington, "...Q-99..."
After considerable thought, I have decided to resign as editor of this column. I won't be attending the convention this summer in Jamestown, New York. 73, Ralph

+ + + + +

SOUTHERN FM DX

August 1984

Danny Buntin, editor
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 10th

ES SLOWS CONSIDERABLY AFTER JUNE 9th

Jim Pizzi, P. O. Box 1778, Lovington, NM 88260 - 5/27 to 6/18 (505)396-3251
5/27 Es 6/4 Es
1823 WTLC 88.3 FL Starke, s/off 1826 1278 1632 XEOY 89.7 DF Mexico City, "Estero mill" c
1825 WPAP 92.5 FL Panama City, tent. k 1634 CERC 97.7 " "
1829 WMAH 90.3 MS Biloxi, ID 891 1634 XEDA 90.5
1837 WHOO 96.5 FL Orlando, ID 1359 1634 unID 91.8 s. s.east- mx or cent.
1839 WWKA 92.3 FL Orlando, promo America? SS nx radio", terrible flutter
1841 WRYO 98.5 FL Crystal River, tent esp. on 91.7, 91.9, beep tone every minute.
5/29 tr 1000 KUHF 88.7 TX Houston, ID 515 1637 XHLM 96.5 MOR Cuernavaca, \$
1000 KRBE 104.1 TX Houston, ID 1637 XHGM 88.5 MOR Cuernavaca 985
1004 KQUB 102.9 " , calls 1644 XHZM 92.5 Puebla, "estereo rey" 985
1006 KILT 100.3 , k, "FM-100" 1654 XHVT 101.3 ?? MX SS, \$, L, calls +
calls 1012 stereo sol
1007 KSRR 96.5 , "97-Rock", ads 1656 XHME 101.1 Campeche, Camp., \$, r, 1224
1017 KGOL 107.5 TX Lake Jackson, g 539 ID 1659 (uses same calls as 89.5 Puerto Vallarta, Jal)
1025 KLOL 101.1 TX Houston, calls 1028 1704 XHOP 96.5 Villahermosa, tent. "Formula Melodica"
5/31 Es 1710 TG?? 98.6 Guatemala City, 1508
Radio Mundial/R. Victoria?, ment. Guatemala often, in for over an hour
1005 WWEN 91.5 GA Cumming, tent \$, nx, wx 1712 XHPR 101.3 VER Veracruz, ads
1418 WAZE 92.1 GA Dawson, ment. Albany 1717 TGN 100.7 s.s. east--mx or C. Amer., tent, SS talk
1421 WBFS 92.1 east, calls 1718 XHTS 101.3 VER Veracruz, \$, r, + reggae
1430 WRBH 88.3 LA New Orleans, ID 819 1722 XHNP 89.3 PUE Puebla, SS, L 985
1431 WCKW 92.3 LA Laplace 790 1723 XHRS 90.1 PUE Puebla, ads
1438 WQYK 99.5 FL St. Petersburg, ads, k 1731 XHBA 104.1 OR/XHVA MX// calls + "JUS-FM"
1439 WRNO 95.5 LA New Orleans, "the rock" R. Formula
1440 unID 88.9 east, g, NBN Moody broadcast 1810 XHRC 91.7 PUE Puebla, ads 985
"Prime Time America" 1831 unID 98.5 s.s. east, "R. Capital"
1445 WPMG 99.1 MS Pascagoula, calls 1451 WQGL 90.7 FL Panama City, nx 1835 unID 92.1 Mexico ment. "en Cordoba"
1452 WQZL 97.7 FL Bonifay, ads 1508 WTBB 97.7 FL Bonifay, ads 1853 unID 92.1 Mexico ment. "en Cordoba"
1509 WBGM 98.9 FL Talahassee, ads 1509 WBGM 98.9 FL Talahassee, ads 1856 XHRS 90.1 PUE Puebla, "R. Lobo" 985
1518 WYKD 98.1 AL Andalusia, ads 1520 WKRQ 99.9 AL Mobile, tent 1859 KUSU 91.5 UT Logan, ID 752
1520 WOOF 99.7 AL Dothan, ads, 12 tv promo 1521 WOOF 99.7 AL Dothan, ads, 12 tv promo 1909 unID 99.3 n.n. west "V-99"
1527 WUPT 89.1 FL Gainesville, 1522 WUPT 89.1 FL Gainesville, 1911 KZBQ 93.7 ID Pocatello, r, calls 833
1534 WZL 88.3 FL Starke, g, s/off 1500 1278 1523 WTLC 93.1 ID New Plymouth, k 1035
1557 WNCM 88.1 FL Jacksonville, "FM-88", 1300 1912 KZNN 93.1 ID New Plymouth, k 1913 KNAQ 92.1 ID Rupert, ads, "Q-92"
"Jacksonville's own, UPI nx 1600 1914 KQFM 99.3 OR Hermiston, ads, calls 1916 KHQ 98.1 WA Spokane, tent, r
1923 KMOK 106.9 ID Lewiston 1924 KQFA 89.1 WA Richland, ID 1917 KZK 102.7 WA Spokane, tent, r 1148
1929 KFAE 89.1 WA Richland, ID 1925 KZK 102.7 WA Spokane, tent, r 1918 KZK 102.7 WA Spokane, tent, r
1934 KIQX 101.3 CO Durango, "KIX FM", promo 1926 KZK 102.7 WA Spokane, tent, r 1919 KZK 102.7 WA Spokane, tent, r
for San Juan Nat. Forest 383 1938 KKRZ 100.3 OR Portland, Z-100 1920 KZK 102.7 WA Spokane, tent, r 1921 KZK 102.7 WA Spokane, tent, r
1942 KJOT 105.1 ID Boise 1922 KZK 102.7 WA Spokane, tent, r 1922 KZK 102.7 WA Spokane, tent, r 1923 KZK 102.7 WA Spokane, tent, r
1943 KXDD 104.1 WA Yakima, ads 1923 KZK 102.7 WA Spokane, tent, r 1924 KZK 102.7 WA Spokane, tent, r 1924 KZK 102.7 WA Spokane, tent, r
1946 KEZE 105.7 WA Spokane, ads, r 1925 KZK 102.7 WA Spokane, tent, r 1925 KZK 102.7 WA Spokane, tent, r 1925 KZK 102.7 WA Spokane, tent, r
1950 KHKW 106.5 WA Richland, k, calls 1926 KZK 102.7 WA Spokane, tent, r 1926 KZK 102.7 WA Spokane, tent, r 1926 KZK 102.7 WA Spokane, tent, r
1953 KFFM 107.3 WA Yakima, ads 1927 KZK 102.7 WA Spokane, tent, r 1927 KZK 102.7 WA Spokane, tent, r 1927 KZK 102.7 WA Spokane, tent, r
1957 KWHT 103.5 OR Pendleton 1928 KZK 102.7 WA Spokane, tent, r 1928 KZK 102.7 WA Spokane, tent, r 1928 KZK 102.7 WA Spokane, tent, r
1959 KZK 102.7 WA Richland, ID 1929 KZK 102.7 WA Spokane, tent, r 1929 KZK 102.7 WA Spokane, tent, r 1929 KZK 102.7 WA Spokane, tent, r
2001 KCIV 104.5 OR The Dalles, ID 1930 KZK 102.7 WA Spokane, tent, r 1930 KZK 102.7 WA Spokane, tent, r 1930 KZK 102.7 WA Spokane, tent, r
2006 KONA 105.3 WA Kennewick, ID 1931 KZK 102.7 WA Spokane, tent, r 1931 KZK 102.7 WA Spokane, tent, r 1931 KZK 102.7 WA Spokane, tent, r
2013 KQKT 98.3 ID Rexburg, tent 1932 KZK 102.7 WA Spokane, tent, r 1932 KZK 102.7 WA Spokane, tent, r 1932 KZK 102.7 WA Spokane, tent, r
2015 KTBK 95.9 WA Ephrata, g, ID 1933 KZK 102.7 WA Spokane, tent, r 1933 KZK 102.7 WA Spokane, tent, r 1933 KZK 102.7 WA Spokane, tent, r
cont.

6/4 Es
 2033 WBES 96.1 WV Charleston, ID 1256 6/8 Es
 6/5 tr
 0709 KINF 91.9 KS Dodge City, r, KI-91, wx 375 1629 WTG 92.3 IN Bloomington, ads 1022
 0728 KSLS 101.5 KS Liberal, ID, k, \$ 306 1632 WDAO 107.7 OH Dayton, calls 1152
 0729 KVGB 104.3 KS Great Bend, nc, ads 450 1634 WWY 104.9 IN Columbus, ads, "tri-W-Y"
 0751 KANZ 91.1 KS Garden City 360 1637 WRZQ 107.3 IN Greensburg, ads, calls, wx
 Es
 0805 XHOM 88.5 MOR Cuernavaca, 1640 WFB-FM 105.9 OH Middletown, "new rock
 ID 0846 w/calls + "estereo mexicana" 985 1641 WCBK 102.3 IN Martinsville, k, ads, cl 1035
 0806 XHM 88.9 DF, SS, r 1642 WFM 106.5 IN Washington, "Washington's
 0808 unID 91.8 MX, SS, same as 6/4 natural sound" 1066
 0858 XHRS 90.1 PUE Puebla 1650 WRMZ 99.7 OH Columbus, ads 1215
 1031 WPAT 92.5 FL Panama, calls 1071 1652 KQVB 98.3 MN Spring Grove, calls 959
 1032 KXHQ 92.1 TX Seabrook, calls in EE 528 1659 WSFP 90.1 FL Ft. Meyers, ID 1700 1386
 1034 KLIL 92.1 LA Moreauville, ads, nx 1738 WAQE 97.7 WI Rice Lake, calls 1049
 1042 KJSN 92.5 OR Klamath Falls, call 1170 1739 KNKR 97.5 MN Rochester, ads 945
 1044 KPCQ 92.5 WY Powell, ads, "Q-92" 842 1742 WIMI 99.7 MI Ironwood, calls 1143
 1101 KQRR 92.3 MT Ronan, ads, KQ-92-FM 1121 1759 WRAF 90.9 GA Toccoa, ID 1148
 1102 KGLT 91.9 MT Bozeman, calls 945 1800 KCCM 91.1 MN Moorhead, ID 1004
 1104 KYYA 93.3 MT Billings, Y-93 900 1800 WYFG 91.1 SC Gaffney, calls 1238
 1106 KBBZ 98.5 " " "B-98" 1801 WESF 92.5 SC Greenville, ID 1205
 1127 KZLS 97.1 " " "B-98" 1802 WFAE 90.7 NC Charlotte, promos 1206
 1130 KBYS 97.5 MT Livingston, oldies r 932 1811 WJCA 92.1 GA Jackson, ads 1125
 1148 KDNA 91.9 WA Yakima, tent, SS 1815 WDYN 89.7 TN Chattanooga, ID 1037
 1158 KUFM 89.1 MT Missoula, tent 1816 WYCA 92.3 IN Hammond, tent, g
 1158 K296BI 107.1 MT Marysville, tent. 1818 WGX 92.3 MI Detroit, ad 1260
 sitar mx on 89.1 & 107.1 1859 WUCM 91.7 MI Ann Arbor, ID 1229
 1202 KXXE 101.3 MT Forsyth, calls 923 1904 WLBS 102.7 MI Mt. Clemens, calls 1274
 1204 KEIT 102.9 MT Billings, k, \$, calls 900 1909 CGFT 99.9 ON Sarnia, ID 1305
 1205 KODA 103.1 ID Coeur d'Alene, ID 1205 1922 WLKI 100.1 IN Angola, calls 1157
 1210 KMBI 107.9 WA Spokane 1224 1911 WNIC 100.3 MI Dearborn, ads
 1219 unID 102.9 n. w. "here in Gillette" 1915 WCMC 104.3 MI Detroit, calls 1260
 1228 KQRT 103.7 WY Casper, calls 698 1920 CBEG 106.3 ON Sarnia, Can, mx pgm. 1305
 1230 KHQ 98.1 WA Spokane, calls 1224 1921 WYBN 106.7 IL Des Plains, calls 1040
 1231 KIDZ 98.5 MT Billings, calls 900 1922 WJZQ 105.9 MI Detroit, calls 1260
 1234 KDLY 97.5 WY Lander, ads 725 1924 WQRS 105.1 MI Detroit, ads, c
 1236 KZQG 100.1 MT Missoula 1107 1926 WGMZ 107.9 MI Flint, wx, "FM-108" 1260
 1238 KGWY 100.7 WY Gillette, Y-100, ads, r 783 1927 WWWW 106.7 MI Detroit, k, "W-4", ads 1260
 1242 KOLL 96.9 WY Gillette, "cole-FM", promo 1928 WMUZ 103.5 MI Detroit, calls
 1244 KYYZ 96.1 ND Williston, ads 1026 1929 WQLR 106.5 MI Kalamazoo, ads 1148
 1255 KUFM 89.1 MT Missoula, calls 1107 1933 WCUZ 101.3 MI Grand Rapids, promos 1170
 1300 KBHE 89.3 SD Rapid City, ID 774 1934 WJXQ 106.1 MI Jackson, r, Q-106 1193
 1304 KYZZ 92.7 MT Wolf Point, ads, "Y-22" 1939 WDET 101.9 MI Detroit, calls 1260
 1306 unID 96.5 north "the gate city", r 1942 WJGS 98.5 MI Houghton Lake, calls 1260
 1309 XHPI 93.1 JAL Guadalajara, ads, 860 1948 WFMW 98.3 MI N. Muskegon, Magic 98 1145
 "estereo amistad" 1951 WZOK 97.5 IL Rockford, prev. ms 990
 1317 KDXT 93.3 MT Missoula, "XT-93", ads 1107 1952 WML 106.1 WI Waukesha, k, calls 1058
 1321 XHJL 91.5 JAL Guad., ads "estereo mundo" 1953 WWRM 106.7 MI Gaylord, Wm 107 1280
 1331 XEBA 97.1 " " "ads 1955 WUCN 99.7 MI Midland, tent.
 1338 unID 92.1 MT? "here at Helena's 2000 WLEW 92.1 MI Bad Axe, ID
 country connection" 2007 WITL 100.7 MI Lansing, wx, calls 1210
 1929 KPQX 92.5 MT Havre, ads 1103 2014 WHNN 96.1 MI Bay City, ads 1247
 6/6 Es
 1707 unID 89.9 east, talk 2015 WGRD 97.9 MI Grand Rapids, ads
 1837 unID 89.7 east, c 2020 WMRX 97.7 MI Beaverton, promo 1238
 6/7 Es
 1757 KZSC 88.1 CA Santa Cruz, tent, reg, mx 2023 WWKA 92.3 FL Orlando, promos 159
 1758 KUBO 90.9 CA Chualar, SS, ID promo 2027 WFNH 99.7 IA Muscatine, ads 878
 1759 KQED 88.5 CA San Francisco, ID 2029 WMCF 96.5 WI Milwaukee, calls 1067
 2121 WJMK 93.1 MI Iron Mountain, ID, k 1170 2030 WDLR 89.3 IL East Moline, ID, g 914
 2133 WBKV 92.5 WI West Bend, ads, V-92 1067 2032 WLCO 100.3 IL Chicago, #362-2900 1040
 2135 WGLQ 97.1 WI Escanaba, calls 1202 2038 WQFM 93.3 WI Milwaukee, 93QFM, ads 1067
 2138 WSPT 97.9 WI Stevens Point, calls, wx 2039 KDWD 93.5 IA Burlington, calls 855
 2143 WCOW 97.1 WI Sparta, ad 1004 2042 WJML 98.9 MI Petoskey, ads 1278
 6/8 Es
 1600 WFPL 89.3 KY Louisville, ID 1049 2047 WRVM 102.7 WI Suring, g 1129
 1611 WMEZ 92.5 OH Cincinnati, ads 1125 2054 WMBN 98.1 WI Madison, ads, r 1013
 1613 WUME 95.3 IN Paoli, obits 1013 2100 WQRM 100.7 IA Iowa City, ads 869
 1615 WSLM 98.9 IN Salem, nx 1015 2105 WRLO 105.3 WI Antigo, wx, calls 1105
 1622 WEIC 92.1 IL Charleston, ads 1015 2107 WDEZ 101.9 WI Wausau, calls 1080
 959 2109 WWRH 103.3 WI Wisconsin Rapids

AUGUST 1984

6/10 Es
 2008 YKX 105.7 TX Longview, calls 502 6/16 Es
 2030 KOIO 106.5 TX Jacksonville, ID 466 XHME 89.5 Puerto Vallarta 840
 6/11 Es
 2030 WRAF 90.9 GA Toccoa Falls, ID 1148 XEOY 89.7 DF 960
 6/12 Es
 1112 KNAQ 92.1 ID Rupert, obit 842 KECR 97.7 DF
 1112 KIZN 93.1 ID New Plymouth, calls 1035 XHNP 89.3 PUE Puebla, "R. Tropicilada"
 1113 KMTW 96.5 ID Idaho Falls, tent 2043 KYYX 96.1 ND Williston, wx 1026
 1120 KCPX 98.7 UT Salt Lake City, ID, promo 2046 unID 91.7 north, c
 1133 KXHQ 96.1 CR Ontario, \$, r, ID 2123 KGCH 93.1 MT Sidney, "CH-93", wx 995
 1136 unID 96.5 n.n.west, same mx as KXHQ 2329 KPQX 92.5 MT Havre, "QX Country"
 1141 KFMA 102.9 ID Jerome, r tent. 6/18 Es
 1142 KCID 103.1 ID Caldwell, tent. 1225 WMMK 92.1 FL Destin, ads 1015
 1147 KZZ 102.7 WA Richland, "Z-103" XMAR 95.9 LA Winnsboro, ads 689
 6/13 Es
 2138 KBBF 89.1 CA Santa Rosa, SS WHIQ 96.9 AL Enterprise, ads, Q97 1040
 2139 KAER 92.5 CA Sacramento, k, ID WPMO 99.1 MS Pascagoula, calls 896
 2140 KCTC 96.1 CA Sacramento, b WKYD 98.1 AL Andalusia, ads 1008
 2141 KFIM 102.5 CA Woodland, r, ment Davis WZKX 107.1 MS Gulfport, "ZKK-107" 867
 2150 KQED 88.5 CA S. F. 1005 WYTL 97.7 MS Tylertown, wx, calls 788
 2152 KCJH 90.1 CA Stockton, tent., g 1011 WFFF 96.7 MS Columbia, ID 810
 6/16 Es
 1719 XHOY 90.7 JAL Guadajara 1013 WABB 97.5 AL Mobile, calls 936
 1720 XHRA 89.9 JAL Guad. 1019 WNSL 100.3 MS Laurel, "south MS 835
 1720 XHJL 91.5 favorite"
 XHRF 88.1 DF 960
 Quite a report period this time around. Lots of Es and some tropes. 6/4 Es to Guatemala
 was a surprise, in for over one hour and a new country for me. 6/4 tr of KIWX was def-
 inately tropes, not backscatter--one of my best tr catches, not very far, but 10-12000 ft.
 mountains in the way. 6/8 Es very strong and long duration. Hope everyone is enjoying
 a good DX season. 73's

Bill Townshend, 4500 Conn. Ave., NW #901, Washington, DC 20008 EDT 202-966-8046

6/7 tr
 0930 WKDN 106.9 NJ Camden, g 1014 WKEZ 94.1 VA Norfolk, c
 1000 WOEL 89.9 MD Elkton, g, (ex-88.3) 1023 WEXM 107.5 VA Exmore/Onancock
 1015 WRVL 88.3 VA Lynchburg

All DXing done on Sony IC-S52. However, I recently bought a five band Realistic
 Portavision-55 12-778, which performs very well on FM and on the UHF-TV band. I've been
 trying out my "toy" over the last few days. 73's

EDITOR'S NOTE: Effective this month I have decided to stop printing reports that are
 mostly composed of counting changes in call letters as new stations and in so doing going
 against club guidelines. One such report is based almost entirely on the monitoring of
 regularly received stations for call letter changes and counting them as new when QSLed.
 I no longer wish to be an indirect party to such practices by printing them as I believe
 club guidelines should be followed when reporting to the VUD to ensure we're all on equal
 footing. After all, this is a DX column, and reports mainly about call letter changes
 should be directed to the FCC-FM column.

Danny Bunting, 1312 N. Skyline, Stillwater, OK 74075

6/21 Es
 1545 WTG 96.9 SC Charleston, b 7/5 Es
 1549 WSSX 95.1 SC Charleston, r 1700 WHFL 91.1 MD Bel Air, ID
 1552 WPTM 102.3 NC Roanoke Rapids, k
 6/25 tr
 1021 KSDB 88.1 KS Manhattan, ID 7/7 tr
 low power, KS City in good 2200 KIWR 89.7 IA Council Bluffs, ID 365
 7/14 tr
 1000 KRNQ 102.5 IA Des Moines, r 430
 Es has been quite a disappointment since
 mid-June and little time left for improvement.

Those who don't have much money to invest
 in good DX equipment ought to check local
 pawn shops for something good. For example,
 here at a local shop I was surprised to see
 a Sansui SU-717 tuner, one of the best ever
 made by Sansui, with an asking price of \$110.
 Used tuners like this are surely great finds,
 if the selectivity spec. is at least 80 db.

Dx Distance

USE A HOME COMPUTER TO MEASURE YOUR DX!

John F. Combs
2485 Ivan Ct.
Orlando FL 32807

The program presented below was written to run on the Commodore 64 computer. It measures the exact distance between your DX location and any given TV station in the United States or Canada. The only input required is: (a) your own latitude and longitude, and (b) that of the desired station.

If you do not know your exact latitude and longitude, and are content with a less than accurate answer, the coordinates of your town may be available in an almanac. Determining one's own coordinates, however, is fairly simple if a detailed map is available.

Coordinates for all U.S. television stations, and many Canadian stations, are found in such publications as *Television Factbook*, which is available in most larger public and university libraries. Coordinates for transmitters in Mexico, the Caribbean, Central and South America are lacking; indeed, we do not even know the approximate geographical location of many stations in Cuba and elsewhere.

Although the program is written in Commodore BASIC, those of you with other computers may well be able to adapt it to your own version of BASIC. If you own a Commodore 64, but do not have the time or patience to type in the program, I would be happy to provide the program to anyone who sends me a blank, formatted diskette and \$1.00 to cover postage. Write me if you have any questions.

MAGIC DX DISTANCE FINDER

```

5 REM *** MAGIC DX DISTANCE FINDER ***
10 FORT=1TO250:NEXT:PRINT"CLEAR":FORT=1TO50:NEXT
15 PRINT"19 DOWN{8 SPACES}19VS MAGIC DX DISTANCE FINDER{OFF}"
20 FORT=1TO1000:NEXT
25 PRINT"2 DOWN{8 SPACES} (C)1983 BY JOHN F. COMBS"
30 FORT=1TO1500:NEXT:PRINT"CLEAR":FORT=1TO500:NEXT
100 REM *** LATITUDE AND LONGITUDE DATA ***
105 PRINT"5 DOWN{SPACE}ENTER YOUR LATITUDE:"
110 INPUT"? SPACES:DEGREES ":"D1
115 INPUT"? SPACES:MINUTES ":"M1
120 INPUT"? SPACES:SECONDS ":"S1
125 T1=D1+((M1+(S1/60))/60)
130 PRINT"DOWN{SPACE}ENTER YOUR LONGITUDE:"
135 INPUT"? SPACES:DEGREES ":"D2
140 INPUT"? SPACES:MINUTES ":"M2
145 INPUT"? SPACES:SECONDS ":"S2
150 G1=D2+((M2+(S2/60))/60)
155 FORT=1TO1500:NEXT:PRINT"2 DOWN{8 SPACES}OKAY, HERE WE GO!":FORT=1TO500:NEXT
160 PRINT"CLEAR":FORT=1TO250:NEXT
200 INPUT" ENTER CALL LETTERS OF STATION:":CL$
205 PRINT"DOWN{SPACE}ENTER STATION'S LATITUDE:"
210 INPUT"? SPACES:DEGREES ":"D3
215 INPUT"? SPACES:MINUTES ":"M3
220 INPUT"? SPACES:SECONDS ":"S3
225 T2=D3+((M3+(S3/60))/60)
230 PRINT"DOWN{SPACE}ENTER STATION'S LONGITUDE:"
235 INPUT"? SPACES:DEGREES ":"D4
240 INPUT"? SPACES:MINUTES ":"M4
245 INPUT"? SPACES:SECONDS ":"S4
250 G2=D4+((M4+(S4/60))/60)
255 GOSUB500
260 IFCL$=""THEN270
265 PRINT"2 DOWN{SPACE}DISTANCE TO ";CL$;" IS";DX;"MILES":GOTO275
270 PRINT"2 DOWN{SPACE}DISTANCE IS";DX;"MILES"
275 FORT=1TO1500:NEXT
280 PRINT"2 DOWN{SPACE}OPTIONS:"
285 PRINT" (1)CALCULATE ANOTHER FOR SAME LOCATION"
290 PRINT" (2)ENTER DATA FOR NEW LOCATION"
295 PRINT" (3)QUIT PROGRAM"
300 PRINT"2 DOWN{SPACE}CHOOSE ONE... "

```

DX DISTANCE (Continued)

```

305 GEDA$1IFA$=""THEN305
310 IFA$="1"THENPRINT"CLEAR":GOTO200
315 IFA$="2"THENPRINT"CLEAR":GOTO100
320 IFA$="3"THEN400
325 GOTO305
400 FORT=1TO500:NEXT:PRINT"CLEAR{2 DOWN}73 AND GOOD DX!",PRINT"19 DOWN",END
500 REM *** CALCULATIONS ***
505 A=ABS(90-T2):B=ABS(90-T1):C=ABS(G1-G2)
510 X=ABS((B-A)/2):Y=ABS((B+A)/2):Z=C/2
515 R=57.285779514
520 XA=(LOG((COS(X/R))))/LOG(10)
525 XB=(LOG((SIN(X/R))))/LOG(10)
530 XC=(LOG((TAN(X/R))))/LOG(10)
535 YA=(LOG((1/COS(Y/R))))/LOG(10)
540 YB=(LOG((1/SIN(Y/R))))/LOG(10)
545 ZA=(LOG((1/TAN(Z/R))))/LOG(10)
550 ZB=ZA
555 D=XA+YA+ZA
560 E=XB+YB+ZB
565 S=ATN(EXP(D*(LOG(10))))
570 T=ATN(EXP(E*(LOG(10))))
575 YO=(LOG(SIN(S)))/LOG(10)
580 ZO=(LOG(1/SIN(T)))/LOG(10)
585 ZZ=ZO+YC+ZC
590 CO=2*(ATN(EXP(ZZ*(LOG(10)))))**R
595 DX=INT(((CO*60)*1.1516)+.5)
600 RETURN

```

Incidentally, the distance given is rounded off to the nearest mile. If you are a stickler for accuracy (and this may be important where records are concerned), you can have the program print out the exact distance, including all decimal places, by changing line 595 to the following:

595 DX=((CO*60)*1.1516)

If you're really ambitious, you could even build a data file of the coordinates of all stations within your potential coverage area (say 1500 miles) and tie it in to this program. Such a system could be set up where all one need do is enter the call letters, and the distance is calculated. I have tried to set up such a system, but have come to the conclusion that unless you're single, childless, and independently wealthy (i.e., no need to "punch a clock"), it is a task tantamount to reading the phone book or counting the number of "e's" in the Bible!

Worldwide TV-FM DX Association

PHOTO-NEWS

August 1984

David J. Nieman
12284 Nice Road
Akron, NY 14001
USA

The photos this month are from:
Paul Gaines (CP) - Detroit, MI
Nate Ely (NE) - Madison, WI
Dave Nieman (DN) - Akron, NY

WCDC-19 Adams, MA 505 mile
tropo seen on Sept. 9, 1982
(CP)

C.C.I. [UNIDENTIFIED DX]

Robert Grant, KD8EN
5775 Bishop
Detroit, MI 48224.
August, 1984.

TV CALLS:

Nate Ely, 1237 East Johnson St. #2, Madison, WI 53703.

1984: Wed 23 May Es ch 2 2100 CDT— end "Merv Griffin" start "CBC National/Journal" (PTA: ENE) (most likely CKL2-2, Kearns, ON. quite short. -RO)
Thu 24 May Es ch 2 1529 CDT— end "Yan Can Cook" into CBC logo at 1530. (PTA: WNET-NW.)
Fri 8 Jun Es ch 2 1825 CDT— SS. (the photo you sent looks like the IEN Mexico net, likely IEPM-2 Juarez, CH but there are many, many "dos" net stations on 2, including IEN, Cd. Mexico, of course. -RO)

John P. Combs, 2485 Ivan Court, Orlando, FL 32807.

1984: Tue 5 Jun Tr ch 35 0200 EDT— ID slide (a 35 in a circle w/call sign under it) followed by a person playing a piano. (PTA: SC, VA, KY.)

Jeff Kadet, Box 20, Macomb, IL 61455.

1984: Sun 20 May Es ch 4 2059 CDT— CBS, ad- "Travis Crawford Buick" mentioned "Cable channel 7" during ID.

Sat 19 May Es ch 2 1830 CDT— ad for Kullberg's at 8th & Pacific phone # 786???? also Winnipeg Jets ad. (Most likely CKND2-2 Minnedosa, MB -RO)

Robert Grant, KD8EN, 5775 Bishop, Detroit, MI 48224, editor.

1984: Mon 25 Jun Es ch 4 2051 EDT— offset, ABC Monday Night BB, tornado warning. (PTA: ND, SD. KXLF, MT likely but opening would seem to favor KPRK-4 in SD, listed as NBC. Have they changed to ABC???)

FM CALLS:

Jeff Kadet, Box 20, Macomb, IL 61455.

1984: Sat 7 Jan Es 92.5 1330 CDT— FF reggae mix, NB and MB in.

6/25 Es opening brings news: New channel 5 in Lander, WY appears to be on the air. I saw a station that wasn't offset to either WETS nor WNET (this means offset) with a local ad mentioning "Riverton and Lander" (anybody know the calls of this one??) on 6/24 a network swap occurred: KOTA-3 RAPID CITY, SD NOW ABC. (was NBC) as well as KOTA's ch 11 & 12 satellites. KEVN-7 in N.C.S.D. now NBC as well as satellite KIVV-5 LEAD, SD. (were ABC) I could not think of a better way to confuse DXers than to switch the networks of two lowband stations in the middle of Es season. Neither R.C.S.D. station has secondary CBS affiliation anymore, Rapid City has a xtr of KPLD-6 on UHF (I think, see photo on page 26, 2/83 VUD.)

Like last year, the Es got off to a good start but died off quickly. (maybe next year) (or 1986?) (or in your child's lifetime??)

73 & DX (any DX, hi.)

Worldwide TV-FM DX Association

PHOTO-NEWS CONTINUED



KPLD-6 Garden City, SD
940 mile Es seen 1-7-84
(DN)



WULQ-61 Cleveland, OH 400 mile
tropo seen on Dec. 3, 1983 (ME)

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